

# COSSMA

COSMETICS | SPRAY TECHNOLOGY | MARKETING

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## GO FUTURE: COSMECEUTICALS

Latest findings in sun  
and light protection

## SPOTLIGHT: AEROSOLS

The key trends shaping  
the aerosol market

Xavier Susterac, BASF

# “SMART SOLUTIONS”

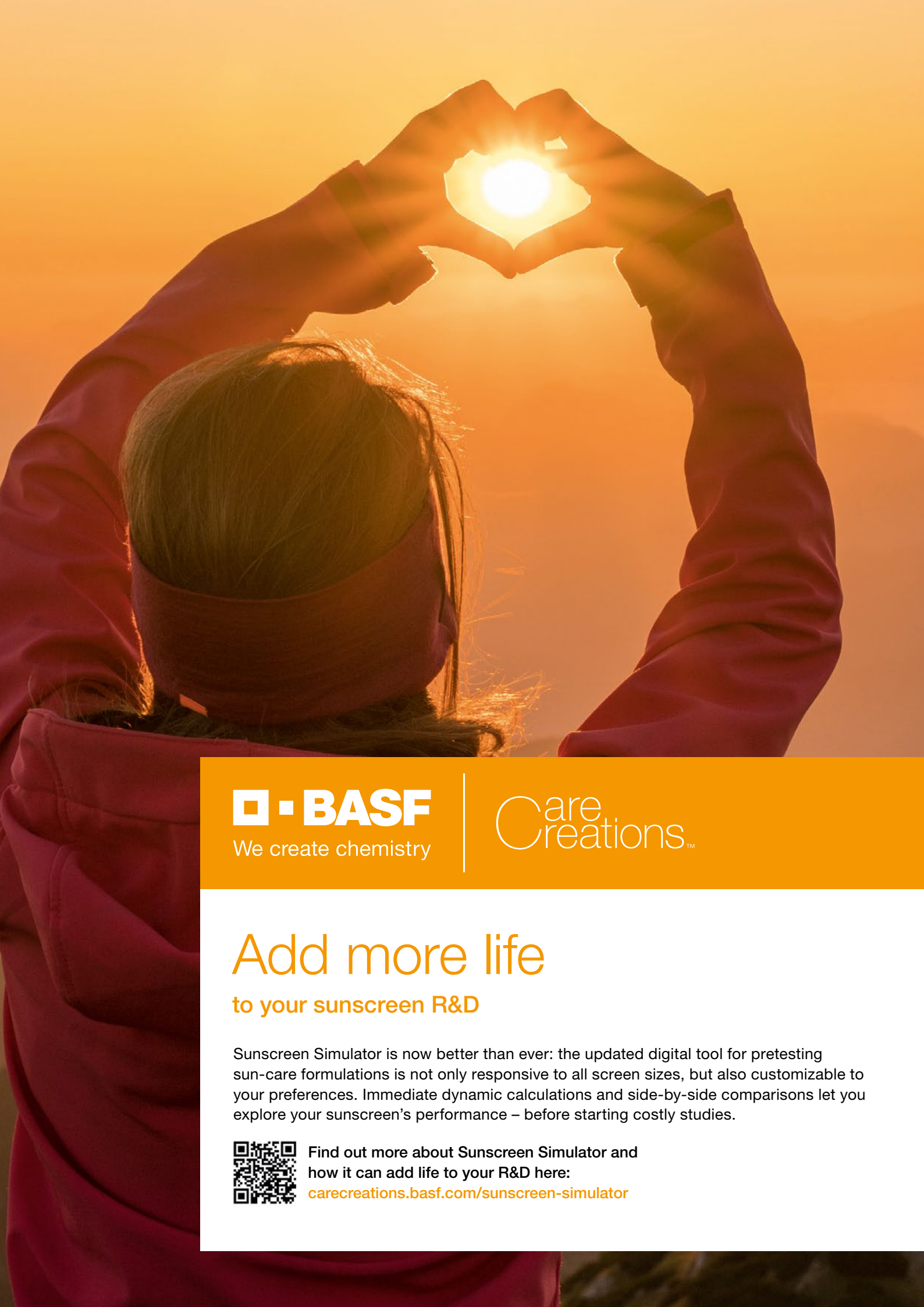
## VIP of the Month

DR KATINKA JUNG

Gematria Test Lab

A closer look at  
anti-pollution strategies





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# COSMETIC SCIENCE – NOW!

In September, when more than 1,000 cosmetic scientists from 53 countries gathered at the 30<sup>th</sup> IFSCC conference, 85 oral presentations and 448 poster presentations gave a concrete picture of what are currently the major focuses of cosmetic science.

Andrea Weber from **Babor** summarises major take-home messages from the conference on page 15. From page 18 you will find out about the main fields of research major suppliers of cosmetics ingredients are currently focusing on. And sun care expert Uli Osterwalder sums up the relevant findings from a UV and light protection point of view from page 22. He comes to the conclusion that in spite of all investigation currently going on into different types of light, UV protection is still of major concern.

Of course, investigation into anti-pollution and skin care plays an important role at the moment. Dr Katinka Jung from **Gematria Test Lab** explains from page 12 what ingredient combinations effectively protect from the damaging effects of pollution.

And if ingredients are not your specialty, then you might find our updated market survey of packaging suppliers from page 40, 2018's packaging highlights from page 44 or a concise update on the latest developments in the field of aerosols from page 34 helpful.

Sincerely yours,

Angelika Meiss  
Senior editor, COSSMA

 **CUSTOMISATION**  
Watch the interview with Dr Thomas Foerster from Henkel on customised salon shampoos, see page 18

 **MARKET SURVEY**  
Don't miss our updated market survey on packaging suppliers from page 40

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VIP of the Month



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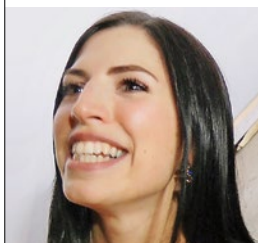
**DR THOMAS FOERSTER**  
Corporate Vice President R&D, Henkel Beauty Care

shows that customised formulations perform better than non-customised ones



**DR MEIKE STREKER**  
Cosmetic Scientist, Consultant and Lecturer

explains what the most relevant current trends are in the field of cosmetic ingredients



**CHARLOTTE LIBBY**  
Global Beauty Analyst, Mintel

provides a concise overview of the latest developments in colour cosmetics



**ANDREW MCDOUGALL**  
Global Beauty Analyst, Mintel

delivers insights into the key findings of the beauty and personal care trends 2018



**ZEZE ORIAIKHI-SAO**  
Founder and Director, Malée Natural Science  
presents Malée, a brand inspired by the ancient wisdom of Africa



**CAMILLA MARCUS-DEW**  
Co-Founder, The Soap Co.  
talks about luxury skin care produced by people with disabilities

## TIPS FOR MORE INFORMATION IN NOVEMBER

Hélène de Clermont-Gallerande from Chanel Parfums Beauté explains what ingredients to use for lipstick creation, how to create a glossy or matte lipstick and how to avoid the sweating phenomenon.



The highest viscosity of oils leads to the glossiest lipsticks

For more information,  
search for these topics at

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## Top additional information in November



### MARKET DATA:

Natural Cosmetics – all you need to know



### INGREDIENTS:

RonaStar pigments (Merck KGaA)



### COMPANIES:

Customer centricity in personal care (DSM)



### FORMULATION:

Pink Sorbet 2 Step Pampering Mask (Greentech)



## LOG IN AND TAKE FULL ADVANTAGE!

On the COSSMA website, we post lots of additional information related to the topics covered in the magazine. You will find **MORE THAN 1,000 USEFUL ADDITIONAL ITEMS** to extend your knowledge and understanding: more information on the ingredients and finished products that we cover; market data and statistics; supplier listings; literature references; scientific articles; product formulations and useful base formulations. Search for the topics you are particularly interested in at [www.cossma.com](http://www.cossma.com)





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**MEDICAL**

# NEWS

## NEW R&D CENTRE



Düllberg Konzentra's team at the new R&D centre in Jakarta

**DÜLLBERG |** The company has opened a new R&D Centre in Jakarta. Indonesia has one of the highest growth rates worldwide

for fragrances and beauty care and is forecast to become one of the top 5 markets for cosmetics in the next 10 to 15 years. The region also boasts a wide variety of raw materials and ingredients such as cloves, nutmeg, vetiver and citronella. 90% of the global supply of patchouli comes from Indonesia.

[www.duellberg-konzentra.de](http://www.duellberg-konzentra.de)

## New name



Akzo becomes Nouryon

**AKZO NOBEL |** Akzo Nobel Specialty Chemicals has been relaunched as **Nouryon**. The move follows the recent acquisition of the business by the **Carlyle Group** and **GIC**.

[www.nouryon.com](http://www.nouryon.com)

## FLACONS

**HEINZ-GLAS |** Heinz-Glas has acquired the flacon business of **Saverglass**. Saverglass has built up a range of its own glass designs in the perfume, cosmetics and home fragrance sector since 1997. Heinz-Glas has 16 locations in 12 countries on three continents.

[www.heinz-glas.com](http://www.heinz-glas.com), [www.saverglass.com](http://www.saverglass.com)



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## New investor

**ARDIAN** | Ardian has sold **ADA International** to **Moonlake Capital**. After having acquired the European manufacturer of hotel cosmetics in 2014, **ADA International** has advanced from local market leader in the DACH region to one of the market leaders in Europe. In the German-speaking region, **ADA's** market share now amounts to more than 50%. In the UK, this figure is only slightly lower, and in France the company is the 2<sup>nd</sup> largest. It has also strengthened its presence in Asia and the Middle East. Sales have more than doubled to over 110 million €. The customer base has grown from around 15,000 to over 25,000 hotels, and the workforce has doubled to around 700 employees. **ADA International** was founded in 1979 in Kehl, Germany. Its core business are personal care products for the hotel industry. In addition to its own established brands such as **Naturals**, **Pure Herbs** and **Hydro Basics**, **ADA International's** product range also includes hotel cosmetics products from brands such as **Chopard** and **Bulgari**.

[www.ada-international.com](http://www.ada-international.com)



ADA sells personal care products to hotels



Clariant and Martha Tilaar representatives

## NEW DISTRIBUTOR

**CLARIANT** | The global supplier of specialty chemicals now distributes natural ingredients from **PT Martina Berto, Tbk**, a manufacturer of cosmetic products and herbal medicine based in Indonesia under the **Martha Tilaar Group**. Thus, **Clariant** gets access to South East Asia

plants and algae to develop new sustainable solutions. The cooperation already began in 2015. This partnership is in line with the collaborations with other nature experts such as **CRM** (Mediterranean biome), **Beraca** (Brazilian biome) and **BioSpectrum** (Asian biome).

[www.clariant.com](http://www.clariant.com)

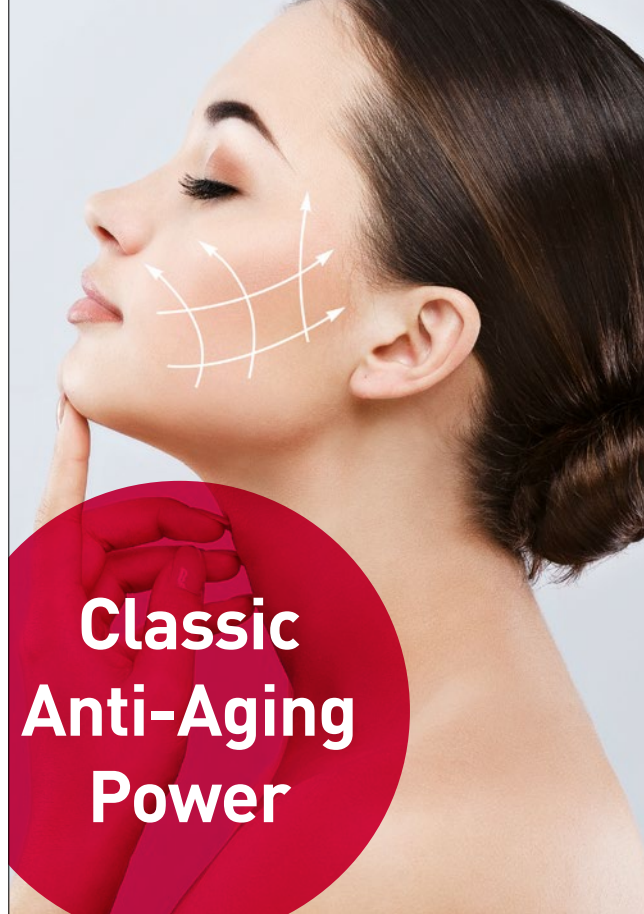
## Expansion

**EDELMANN** | The global manufacturer of paper and board packaging solutions has acquired 100% of the shares in **Elanders Beijing Printing**, an entity formerly owned by **Elanders AB** (publ). **Edelmann** thereby expands into the production of packaging solutions, primarily folding cartons and rigid boxes for the beauty care and consumer brands markets in China, to create a new hub for beauty care and consumer brands markets. The additional site will increase the overall **Edelmann Group** network to 21 sites and more than 3,000 employees worldwide.

[www.edelmann-group.com](http://www.edelmann-group.com)



Production of folding cartons and rigid boxes in China



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# ANTI-POLLUTION STRATEGIES

**Interview** | What are the main skin-damaging pollutants? And what ingredients help to combat damaging effects? Find the answers and insights about appropriate formulation strategies here.

► **Interview with:**

Dr Katinka Jung,  
Managing Director  
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Berlin, Germany  
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[jung@gematria-test-lab.com](mailto:jung@gematria-test-lab.com)



**COSSMA: What effects does pollution have on the skin?**

**Dr Katinka Jung, Managing Director, Gematria Test Lab:** Skin damage arising from pollutants such as gases and particulate matter is mainly mediated by oxidative stress. The pollutants directly or indirectly generate free radicals on and in the skin, leading e.g. to MMP upregulation

and damage of collagen fibres. The mechanisms seem to be similar to those of UV light. Particulate matter, e.g. from combustion smoke, tends to contain heavy metals, metal ions, and organic toxins, which further promote the generation of free radicals on the skin. In addition, the combination of pollutants and UV irradiation can accelerate the radical chain reactions.



function, this can turn out to be a major problem.

### **What are the most skin-damaging pollutants?**

There are many definitions for what the most aggressive pollutants are. The answer will depend on the biological endpoint determined and the entity of the damage measured. When we define pollutants as the chemical and physical influences that will increase oxidative stress, we have to include ultraviolet radiation, ozone, volatile organic compounds, reactive oxygen and nitrogen species, metal ions and polycyclic aromatic hydrocarbons. Most of these can be found in cigarette smoke, for example.

### **What ingredients can be used to stop damage caused by pollution?**

The approach to efficient anti-pollution strategies is surely to reduce oxidative stress that is induced on the skin's surface. Preventive strategies that avoid contact of the aggressive particles with the skin are the most efficient. To this end, film formers and formulations that prevent penetration are required. In addition to this, many radical reactions are initiated by UV irradiation. An effective approach to limit this type of damage is to reduce the amount of UV light that reaches the skin. In most cases this can be achieved with the help of

UV filters or absorbers. A sunscreen formula is surely helpful. In addition, addressing the metal ion contribution in peroxidation reactions is mandatory for an efficient anti-pollution product. In this context, efficient chelators that trap the metal ions, inhibiting their contribution in radical propagation, are a key factor. The healing strategy of reducing radical damage once the ROS are formed thus is a second line of defence. Efficient and highly reactive antioxidants are needed to stop radical chain reactions and limit lipid peroxidation of the stratum corneum. Actives aimed to restore the barrier function of the skin are helpful to increase the skin's intrinsic defence system.

### **What evidence is there that cosmetic ingredients really counteract the damaging effects of pollution?**

We observe a constant increase in raw materials claiming efficacy against pollution-induced damage on skin and hair. Again, prevention and healing are the main strategies to fight pollution effects. The mechanisms of action can range from removal of the pollutant particles, for cleansing products, to antioxidant actives aimed to reduce the oxidative stress. An efficient anti-pollution product seems to be a synthesis of different actives in a proper formulation. The matrix formulation is key to help the actives to be efficient. No photocatalytic activity should occur

More information at

[www.cosma.com](http://www.cosma.com), web code 100116

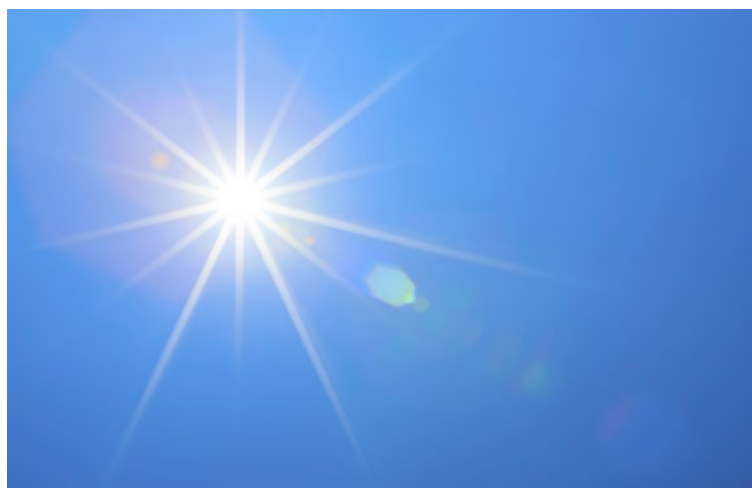
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### **Is pollution and skin protection a topic exclusively for the Asian market?**

I don't believe that the pollution problem is limited to Asia or major cities. The effect of many pollutants, such as metal ions and organic radicals, is not necessarily dose-dependent, but a catalytic. This means that even small amounts of pollutants may start radical chain reactions, behave as photocatalytic agents or induce peroxidation. Especially for sensitive skin or impaired barrier



Many radical reactions are initiated by UV irradiation

## “THE SMARTEST CONCEPT OF ANTI-POLLUTION BECOMES MEANINGLESS IF ADVERSE PEROXIDATION OCCURS IN THE MATRIX”

Dr Katinka Jung, Managing Director, Gematria Test Lab

inside the formula, in order to prevent additional chain reactions.

### What testing methods help to verify this?

Direct or indirect measurements of oxidative stress on the skin are able to show the effect of pollution on the skin and can prove the efficacy of anti-pollution formulas. The test methods can either be ex vivo or in vivo. There are no regulations or guidelines for efficacy testing yet. Therefore, there is a wide range of different testing methods and experimental set-ups. The anti-pollution claim is applied for different classes of products, from leave-on skin protection to rinse-off cleansing. Accordingly, the test methodologies are as diverse as the products classes. A common standard active would be helpful to be able to compare the data from different measuring endpoints. Comparison studies among in-vitro and in-vivo tests are also helpful to obtain more reliable results. As an example, a strong correlation has been shown for ex-vivo tests

#### POLLUTANTS

are chemical and physical influences increasing oxidative stress

Even small amounts of pollutants may start **radical chain reactions**, behave as photocatalytic agents or induce peroxidation

Efficient **anti-pollution strategies** reduce oxidative stress

measuring the amount of free radicals on skin explants due to cigarette smoke and lipid peroxidation markers on skin biopsies coming from in-vivo clinical studies.

### What combination of ingredients contribute to reducing the effects of pollution?

For each anti-pollution strategy the formulation plays a major role. The matrix should prevent the contact between the aggressive environment and the skin barrier. Therefore, a formulation containing penetration enhancers or even a formulation facilitating the skin absorbance is not exactly what is needed here. Furthermore, as many oxidative processes are accelerated by UV radiation, the formulation could contain UV-filters to reduce radical chain reactions from the very beginning. Metal ion chelators might be helpful, but only in the case when the resulting coordination complexes really reduce the catalytic metal activity. This can be achieved with the help of chelators that precipitate or reduce the metal ions, remov-

ing them physically or chemically from the reaction system. Antioxidants can be helpful if they are powerful and stabilised. For anti-pollution purposes, the antioxidants don't even need to penetrate deeply into the skin, as they have to prevent lipid peroxidation of the stratum corneum in the first place. Finally, but not less importantly, there should be a major emphasis on making sure that there is no photocatalytic activity inside the formula. The smartest concept of anti-pollution becomes meaningless if adverse peroxidation occurs in the matrix, due to oil or perfume oxidation or photocatalysis of actives. The combination of actives has to be carefully tested and each component should be optimised to guarantee the highest performance.

### Is there any evidence for this?

We are constantly testing formulations with potential anti-pollution effects. The test has been developed based on ESR spectroscopy, with which the effect of a formulation on reduction of radical reactions in the presence of pollutants and UV radiation can be determined. Due to our experience with these tests, we know which ingredients and formulations work well.

### What potential is there for anti-pollution skin care?

If the anti-pollution concept is not only considered a marketing claim, but an authentic need to protect our skin from the negative environmental factors, the potential is enormous. This would, however, require a set of standard testing methods, a stricter definition of pollution and deeper insights into the clinical consequences of pollution and the benefits of efficient skin protection products. □



Cigarette smoke contains a broad range of pollutants

Additional information can be found on the Internet – see download panel

photos: Sarah Holmlund (lead photo), LightField Studios (mouth), TWStock (UV light), Shutterstock.com

# SCIENTIFIC DIGEST

**Ingredients** | The 30<sup>th</sup> IFSCC Congress in Munich with its more than 400 presentations offered a wealth of scientific research. Andrea Weber from Babor sums up the most relevant trends and findings.

## ► AUTHOR:

Andrea Weber  
Head of Babor's  
research and inno-  
vation centre, Babor  
Aachen, Germany  
[www.babor.com](http://www.babor.com)



Each session had a keynote, and all of them were very interesting and inspiring. The keynote speakers provided insights into the role of free radicals as well as their mode and areas of action in the skin. We also learnt that you really see the consequences of particulate pollution, such as dust particles on the skin, and that antioxidants can be used to combat their effects. In addition, different technologies were presented for improving the delivery of actives to their sites of action. As a result of all the sessions, it was predicted that natural cosmetics with sustainable packaging will be feasible in the future. Furthermore, the importance of specific products for different ethnicities with their different demands was vividly stressed.

## The latest ingredients trends

Many presentations focused on new investigations in the field of blue light

protection, and protection from various environmental stressors. The influence on our skin's microbiome, i.e. the microorganisms that live on our skin and are partly responsible for our skin health, was another focus. These trends and new insights into the skin and its actual composition in much more detail are the main topics skincare research is focusing on right now. In order to predict the effect of actives, there are more and more new testing methods on designed skin models.

## Trends in terms of dermatology

One big trend is to learn about the influence of different proteins and lipids in the skin, the skin's assembly, interaction and their role in different skin phenomena.

To give an example: Why is the skin of Albinos thicker than normal skin, why does it consist of a larger variety of different ceramides and why does it still have a weaker barrier function? The poster entitled **Phenotypic changes in the corneome and ceramidome of photodamaged dry facial stratum corneum from different ethnic groups** was presented by working groups around Dr Rainer Voegeli.

## Prize-winning papers & posters

The topics of the price winners were broadly distributed. The poster award was given to Keiko Nagami from **Mibon** for his poster **Predicting one's future hair condition**. The method presented can predict the future of our hair with the help of a device that analyses hair and scalp conditions and which then calculates the actual age of the hair. This strikingly new approach enables us to customise our hair care routine. The basic research award was awarded to Kie Nakashima from **Osaka University** for a totally new way to regard antiperspirants: **High resolution 3D live imaging of human sweat glands for development of a novel antiperspirant that directly inhibits gland contraction and suppresses sweat secretion**. According to this work, the future lies in the reduction of sweat formation by influencing the calcium influx and thus lowering the osmotic pressure in the sweat glands. Finally, the prize awarded in the field of applied research was given to research (which one) allowing the analysis of the skin over wider areas and in more depth. We thereby can learn a lot more about the real distribution and shape of fibroblasts in the dermis. □

photo: Shutterstock, Shutterstock.com





More information at

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# NUTRICOSMETICS ON THE WAY UP

**Interview** | Find out more about the latest developments in ingredients with long-lasting anti-ageing effects and the benefits of a combined topical and oral application.

► **Interview with:**  
Dr Meike Streker  
Cosmetic Scientist  
Consultant, Lecturer  
University of Ham-  
burg, Cosmetics  
Sciences, Hamburg  
Germany  
[Dr.Streker@web.de](mailto:Dr.Streker@web.de)



**COSSMA: What modern active ingredients are particularly effective when it comes to slowing down the ageing process?**

**Dr Meike Streker, Cosmetic Scientist, Consultant, Lecturer:** Niacinamide for example strengthens the skin barrier and reduces transepidermal water loss significantly. Moreover, it in-

creases the synthesis of epidermal lipids such as ceramides or free fatty acids. When it is combined with adequate sun protection, it helps prevent and correct the damage caused by urban aggressors including UV radiation and pollution.

**What ingredients help to optimise the skin and have a lasting effect?**

photo: Lightspring (food supplements), Shutterstock.com

# URBALYS®

## ANTI POLLUTION 2.0

Combining topical application and oral intake of ingredients is the modern way to an efficient anti-ageing treatment. Thus, the demand for nutricosmetics is increasing. We know the effects of supplements such as vitamin A or  $\beta$ -carotene. They protect eye health, support immunity, relieve inflammation and keep skin glowing. In addition, in the past few years, bioactive collagen peptides have moved into the focus of biochemical and cosmetic research. Taken orally, they increase the skin's moisture significantly, reduce wrinkles and improve elasticity over the entire body. With a regime of added topical treatments you can save time while keeping the skin in good condition.

### What are the most recent promising active ingredients?

The focus is still on ingredients which protect from environmental stress such as pollution and UV radiation. Moreover, probiotics are in demand. Some interesting studies show that probiotics such as lactobacillus have antioxidant power and strengthen the barrier function. This is indeed an interesting range of ingredients, but plenty of further research is required to delineate their benefits. Parameters such as the type of probiotics, the form in which they are added, as well as restrictions for their use for cosmetics are not yet defined.

### What are the latest findings concerning some very traditional cosmetics ingredients?

Today there is a broad choice of studies confirming the benefits of Vitamin C, E or Niacinamide and, in addition, for traditional ingredients such as aloe barbadensis. The results of in vivo studies demonstrate their biochemical properties for example for treating capillary and photo-aged skin or for decreasing erythema and teleangiectasias.

### Which ingredients do you personally find particularly promising and why?

Antioxidants are powerful ingredients. They protect the skin against oxidative stress and keep the endogenous antioxidant level in balance. In addition, DNA repair enzymes such as photolyase help to smoothen sun-damaged skin and reverse the effects of UV exposure.

### What biophysical ways are there to analyse the skin objectively?

To analyse skin quality, especially skin barrier function, the hydration of the stratum corneum can be analysed with the help of a capacitance measurement of dielectric medium. Sebum can be measured with a sebumeter, which is based on grease spot photometry.

To assess transepidermal water loss, the density gradient of water evaporation is measured. In addition, the fringe technique is an optical 3D in vivo measurement for evaluating wrinkle volume and wrinkle depth. □

Additional information can be found on the Internet, see Internet panel



Schützt die Haut vor allen  
Arten der Luftverschmutzung



vorher

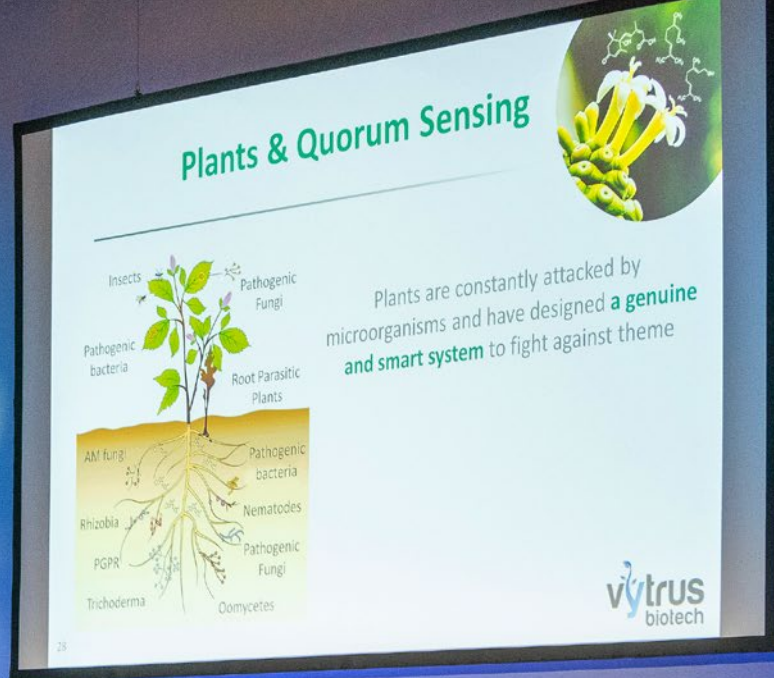
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Signifikante Verbesserung  
des Hautbildes  
Bessere Durchblutung  
Die Haut kann wieder Aufatmen



[www.greentechgmbh.de](http://www.greentechgmbh.de)





# THE WORLD OF COSMETIC SCIENCE

**Events** | The 30<sup>th</sup> IFSCC Congress 2018\* which took place in Munich, September 18–21 with its 85 podium presentations and 448 posters attracted a total of 1,094 individuals from 53 countries.

During the IFSCC's closing ceremonies, held in a traditional Bavarian wooden mountain hut, speakers were honoured with IFSCC Awards for their presentations.

**Prize-winning scientific findings**  
Shiseido's Dr Tomonobu Ezure received the **Basic Research Award** for his presentation **New skincare paradigm targeting the skin anti-ageing system, the dermal cell network.** – **"Digital-3D Skin" technology opens up a new frontier of internal skin structure analysis.** In joint research Shiseido discovered that ageing is associated with a decrease of stem cells in the dermal layer, but the stem cells are well-maintained around sebaceous glands even in aged skin. Dermal stem cells provide new cells in the dermal layer as they grow, and

it is expected that they can be a critical solution for skin rejuvenation.

[www.shiseido.com](http://www.shiseido.com)

Torsten Ertongur-Fauth of **Brain** received the award for **Applied Research** for his podium presentation **Towards novel bioactive antiperspirants for cosmetic applications.** The new concept for sweat reduction is based on directly targeting primary fluid secretion in human sweat glands. The researchers uncovered a previously unidentified key player in human sweat glands – the TMEM16A ion channel, also known as ANO1, then generated a cell-based assay to emulate it. This assay was combined with preselected compound libraries, and small-molecule modulators of the ion channel were identified using high-throughput screening cam-

paigns. Various safety and sweat-reduction efficacy tests with the novel technology are currently being performed in vivo at **Brain**.

[www.brain-biotech.de](http://www.brain-biotech.de)

The **Best Poster Award** went to Keiko Nagami from **Mibon** for the poster title **Predicting one's future hair condition**, see page 15.

Nelly Dubrulle received the **Henry Maso Award** for her paper **DNA metabarcoding as a tool to trace plants of interest in ingredients or cosmetics.** The **Rainer Voegeli Travel Grant** is a special prize available for young scientists from least developed countries, as listed by the **Committee for Development Policy of the United Nations.** This time it was awarded to Mandeep Dutta Joshi from Nepal. The **Lester Conrad Award** was given



to the **Peruvian Society of Cosmetic Chemists**.

The **Innovation Golden Award**, sponsored by the **SOFW Journal** was handed to Alexandra Lan from **Pechoin Daily Chemical Corporation** for the publication in **SOFW Journal** entitled **New innovative sunscreen for the protection for the skin types III – VI**.

### What was new?

Thomas Förster from **Henkel\*** presented **The Smart Salon concept** which includes individualised hair care and colouration products based on NIR/UV-Vis hair status analysis, consumer consultation and a smart mixing device in the hair salon. After a complete hair diagnosis, all gathered data are combined in a decision matrix to create and formulate a hyper-customised shampoo formulation. The compact mixing machine uses a proprietary manufacturing process to dynamically formulate and produce a custom care solution. A study showed that the customised shampoo formulation showed an overall better performance in the main functions for damaged hair than a non-customised shampoo.

[www.henkel.com](http://www.henkel.com)

### BASF's focus: anti-pollution and anti-acne developments

**BASF** presented study results conducted with a novel standardised method which investigates both adhesion to and removal of particulate matter from the skin. With the help of these findings new formulations were developed. These formulations exhibited clear anti-adhesion and removability effects and help safeguard the skin against damage caused by particulate matter.

**BASF** experts assessed synthetic sebum oxidation under simulated conditions of average city pollution using different test methods. Their findings provide evidence and clues for further investigation of anti-pollution ingredients for skin and scalp. As one of the

DSM's **scientific research** helps to develop ingredients matching the needs of today's society

Merck showed efficacy testing of **biological tanners** with the help of 3D skin models

Symrise: Creating **longer-lasting fragrances** while improving skin hydration

largest suppliers of safe-to-use, high-performance UV filters that help protect the skin against the harmful effects of UV radiation, the company shared new insights on molecular aggregates in sunscreens as well as detecting spatial UV filter repartition using confocal Raman microspectroscopy. During poster sessions **BASF** experts presented how they selected a plant extract which reduces sebum production in the sebaceous glands using a 3D model developed by **BASF**. Although epicutaneous patch testing is routinely used as a screening method for skin compatibility during the development and optimisation of cosmetic formulations, it does not allow all reactions to be assessed. **BASF** presented the results of a study conducted together with the DGK work group on skin compatibility, indicating that simple modifications of existing test protocols can lead to important insights into immediate type skin reactions. These modifications can be used to create further building blocks in the development and optimisation of test strategies for cosmetic formulations.

On the scientific programme of the congress, **BASF** experts presented a number of new results. Dr Annette Mehling talked about **Doing the dirty work – systematically: Anti-adhesion studies on particulate matter (anti-pollution)**. Prof Dr Bernd Herzog presented

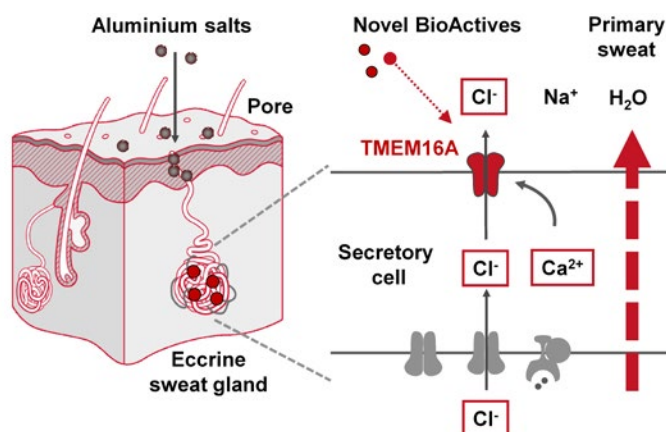
the topic **Molecular aggregates in sunscreens – from liposomes to particles**. Dr Annette Mehling presented a poster about **An unexpected journey: Lessons learned from epicutaneous patch testing**. Dr Zhi Rao presented a poster about **Investigation of the effect of city pollution model on sebum oxidation**. Dr Myriam Sohn presented a poster about: **Use of Confocal Raman Microspectroscopy technique for detecting spatial UV filter repartition**, and Dr Valérie Andre-Frei presented a poster about **Highly efficient plant extract against oily skin determined by 2-D and 3-D sebaceous models**.

[www.basf.com](http://www.basf.com)

### DSM's novel approaches for skin protection

Rational Design Expert Eileen Jackson held a talk about **Discovery of a highly selective MC1R agonists pentapeptide to be used as a skin pigmentation enhancer**. She presented the process that led to the discovery of a highly selective MC1R agonist pentapeptide that induces melanin synthesis at low micromolar concentration ex vivo. Its high degree of selectivity towards multiple closely related proteins and its good performance in melanin synthesis induction make this peptide an ideal candidate as a skin pigmentation enhancer for cosmetic applications.

The poster **Phenotypic changes in the corneome and ceramidome** ▶



Brain: Understanding the action of novel bioactives targeting TMEM16A in human eccrine sweat glands to reduce sweat formation



The award winners of this year's event



COSSSMA editor Angelika Meiss finds out about Merck's latest developments

of photodamaged dry facial stratum corneum from different ethnic groups was about how to utilise mass spectrometry-based ceramidomics and proteomics to understand more precisely the effects of stratum corneum maturation and its relation to facial photodamage, skin pigmentation and ethnicity and to explain some of these differences.

The poster **Changes in protein deglycase DJ-1 expression with age in photoprotected and photoexposed skin** was about the protein deglycase DJ-1, an anti-oxidant protein. It recently has been found, in the stratum corneum, to be associated with the skin's response to ultraviolet radiation. The intention of this research was to learn more about this potentially important protein for skin health and its changes with age.

The poster **Characterization of the lipids from the corneocyte lipid envelope of human stratum corneum** was about the investigation, quantification, and comparison of the molecular composition of lipids in the corneocyte lipid envelope and the characterisation of covalently bound ceramides.

The poster **Image-based continuous p-value evaluation: A novel approach to detect and visualize integral effi-**

**cacy of skin care treatments** by Remo Campiche et al. was based on the recently introduced colour mapping technology and a novel approach to continuously map statistical significance levels (p-values) of cutaneous parameters on the face. This approach was related to skin tone modulation on Asian volunteers using an anti-ageing peptide.

The poster **The effect of relative humidity on ex vivo maturation of facial corneocyte envelopes in Chinese subjects** discussed how to screen the maturity of corneocyte envelopes at different relative humidities and to determine transglutaminase activity on tape strippings obtained from photo-exposed and photo-protected facial sites of Chinese.

The poster **Deciphering the action of (R)-10-hydroxystearic acid on the secretome of dermal fibroblasts by mass spectrometry-based proteomics** by Dominik Imfeld et al. was about 10-hydroxystearic acid, which has been shown to improve in vivo on human skin the appearance of age spots and conspicuous pores. In this study proteome analysis was used to see which protein-based biological markers are up- or down-regulated to give more insights and understanding on the biochemical mechanisms that are potentially involved.

The poster **Inhibition of cutaneous cortisol activation: a novel approach to protect skin from stress induced damage and accelerated aging** by Dominik Imfeld et al. discussed how hectic lifestyle induced stress and age

increase the cortisol level in skin and cause negative effects on skin. The in-vivo study results demonstrate the benefits from cortisol inhibition, a huge need for today's consumer.

The poster **How to establish a meaningful blue light protection claim?** by Rolf Schuetz et al. reported on the damaging effect of solar UV irradiation on skin, which is well documented, whereas the contribution of the visible light, especially the high energetic blue light is not fully understood. Methods for scientific claim substantiation on blue light protection that relate to consumer-relevant situations were presented. A workflow was proposed to facilitate a viable way for claim substantiation resulting in suitable ingredients that combine antioxidant supplementation and blue light filters for biophysical protection of skin against visible light, especially related to outdoor and indoor and exposure to blue light.

The poster **Consumers using less than recommended to optimise the appeal of sunscreens – A consumer habits and practices study compared to the sensorial reality in the market** by Jürgen Vollhardt et al. presented the fact that many consumers apply less than the recommended amount of sunscreen, or even none at all. 5,600 consumers in eight different countries were asked what they thought about sun protection and sunscreens and if/when/how they applied sun protection products. The aim was to understand potential barriers that

More information at

[www.cosssma.com](http://www.cosssma.com), web code 100123

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lead to a lack of UV protection on the consumers' side – and to develop solutions to increase their willingness to apply sunscreen as recommended.

The poster **Prediction of in vivo SPF data: the role of the surface UV filter interaction** by Michael Edelmann et al. covered the subject of predicting SPF in vivo, which can be done by in vitro or in silico experiments. The key is that the sunscreen film on skin is not at all regular. Roughness has a strong influence on performance. Prediction strategies often fail if this parameter is not adequately considered. Sunscreen film formation on skin and templates was experimentally compared with confocal Raman microscopy and revealed significant differences that impact performance prediction. Taking those into account can make models more accurate and more reliable.

[www.dsm.com](http://www.dsm.com)

### Merck: natural anti-pollution and blue light protection

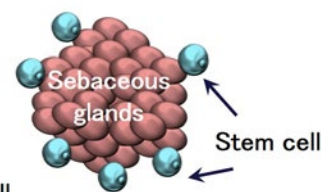
Merck presented their latest developments in leveraging the anti-pollution properties of natural ingredients, ways to study the permeability of active ingredients and how to maximise blue light protection by combining mica and

Mibon's findings on how to predict **one's future hair condition** will pave the way for customised products

BASF shared **new insights** on molecular aggregates in **sunscreens** as well as detecting spatial UV filter repartition



Shiseido's award-winning findings showed that stem cells are maintained around sebaceous glands in aged skin



inorganic UV-filters. In an interactive workshop, Merck also presented a new way for the efficacy testing using 3D skin models in a workshop entitled **Efficacy testing of biological tanners using 3D skin models** with Prof Dr Jörg von Hagen, Head of Cosmetic Actives R&D. The new technology provides specific 3D skin models with various properties to mimic different skin types.

[www.merckgroup.com](http://www.merckgroup.com)

### Symrise focused on healthy skin

Symrise was represented with presentations on eight different research projects with a focus on healthy skin. Dr Manuel Pesaro spoke about the skin-soothing properties of the probiotic lactic acid bacterium strain *Lactobacillus plantarum* Heal19 and its effects on the skin barrier. Since

*L. plantarum* was discovered in the early 20<sup>th</sup> century, scientists have identified a number of useful properties of this little aid. However, its effect on human skin has yet to be researched in-depth. Symrise is making a significant contribution to research on the bacteria while looking to develop products that maintain skin health in a gentle and natural way. On a different topic, a team from France explained how to create longer-lasting fragrances while at the same time improving skin hydration.

[www.symrise.com](http://www.symrise.com)

AM

\*The IFSCC Congress Cosmetics: Science or Beauty and Lifestyle was hosted by the German Society of Scientific and Applied Cosmetics (DGK) who compiled the scientific programme and organised the event.

The 2019 IFSCC Conference will be held September 30 to October 2 in Milan.

The 2020 IFSCC Congress takes place in Yokohama from October 20-23, 2020.

A Web TV Interview with Dr Thomas Förster can be found on the Internet – see download panel

– ADVERTISEMENT –

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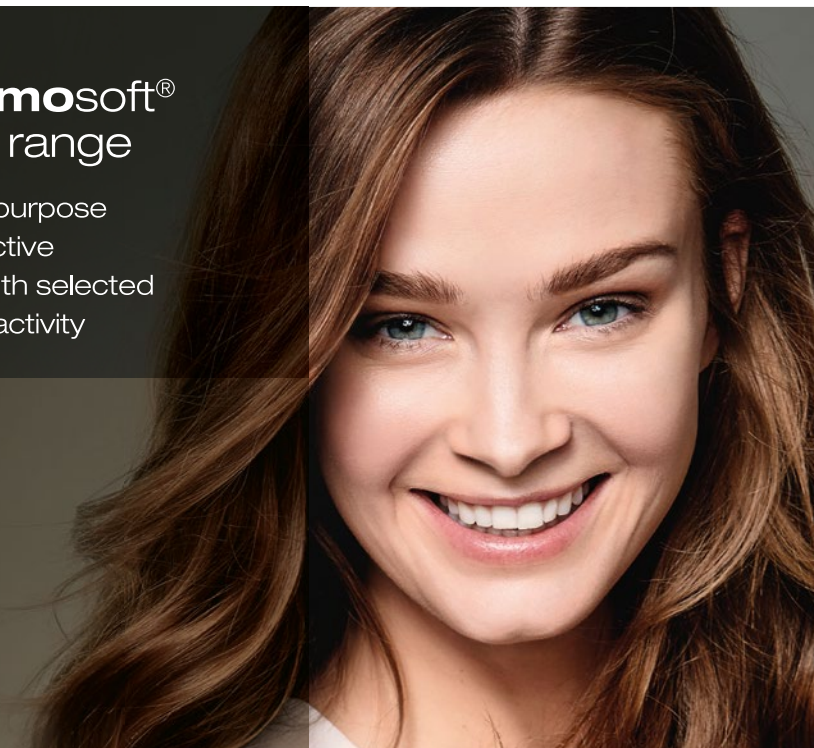
A line of multipurpose and natural active ingredients with selected antimicrobial activity

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# UV PROTECTION REALLY MATTERS

**Interview** | What were the most important new scientific findings in sun and light protection at this year's IFSCC conference in Munich? In spite of all investigation into different types of light sun care expert Uli Osterwalder is convinced that UV protection is of major concern.

► **Interview with:**

Uli Osterwalder, Consultant  
Sun Protection Facilitator  
Basel, Switzerland  
Uli.Osterwalder@sunprotection.co  
www.sunprotection.co



**COSSMA: What were the latest findings in the field of sun protection (UVA/UVB)?**

**Uli Osterwalder, Consultant, Sun Protection Facilitator:** The need for UVA/UVB protection seems to be well-established and claimed by every sunscreen, although UVA standards vary from region to region. As a result, there is more investigation into visible light, blue light and infrared (IR) than into UV radiation. I personally think this leads to a distraction from protection that really matters. The entire UV range is considered carcinogenic by the WHO. It is likely that at the threshold between UV and

visible, blue light may also have a contribution, but much less likely than whole visible and the IR range.

**What were the latest findings in the field of infrared?**

Samara Eberlin from Kosmoscience in Brazil presented Transcriptome (RNA-SEQ) analysis after exposure to infrared A as new targets for photodamage. Comparison with control revealed 214 differentially expressed genes. In my opinion, this is important work that needs to be followed even though the evidence for the need for infrared protection is currently not as convincing as for

UV protection. Often there is no clear separation of irradiation and thermal effect. The evidence for blue light protection is more convincing and there is room for improvement in UVA1 protection. Therefore, focussing on infrared protection at consumer level might distract from more important protection issues.

### What are the latest findings in the field of blue light?

Blue light can cause pigmentation, especially in combination with ultraviolet A radiation. Pigmentary (UV) filters also cover the blue range (400–500nm) to some extent. Protection factors can be in the range of 1.5–3. This may not seem very high, but is still much better than no protection at all. Another protection strategy is to limit damage with the help of antioxidants that capture excessive reactive oxygen species (ROS).

### Are there any new protection strategies against photo-ageing targeted on broad sun-spectrum damaging effects caused by UV, IR or blue light?

When looking at the potential skin damage of the whole sun spectrum, it is important to set the right priorities. Especially, with in vitro experiments damaging effects can be found for any particular radiation range and particular

## "INVESTIGATION INTO VISIBLE LIGHT, BLUE LIGHT AND INFRARED DISTRACTS FROM PROTECTION THAT REALLY MATTERS"

Uli Osterwalder, Consultant, Sun Protection Facilitator

experimental set-up. But UV, IR and blue light do not come alone; in nature we are exposed to the whole sun spectrum most of the time. The scientific evidence over decades shows that the whole UV range is the most damaging range for both skin ageing and skin cancer.

### How can spectral-homeostasis shielding be achieved in sunscreens?

Spectral homeostasis shielding means that a sunscreen protects uniformly against the entire UV range, i.e. UVB, UVA2 and UVA1, comparable to clothing or staying in the shade. This means that the quality of the solar spectrum remains the same, only that the exposure is reduced. With such spectral-homeostasis sunscreen, we can mimic wearing clothing or staying in the shade, which are the two proven strategies for avoiding sunburn, skin damage and skin ageing. Hence, with UVB-biased sunscreens we engage in an experiment that transmits 2 to 3 times higher amounts of UVA1 radiation. These vast amounts of UVA1 radiation contribute to sunburn,

#### Spectral homeostasis

shielding stands for protection from the whole UV range

**Polymers** which act as **film-formers** can boost SPF, UVA-PF and water-resistance

#### UV FILTERS

can be found in nature in plants and animals but commercialising them is a regulatory challenge

The **repair system** in adults seems to adapt in response to solar irradiation

premature ageing and skin cancer. Therefore, it is advisable to develop sunscreens that follow spectral homeostasis as closely as possible. The in-silico sunscreen simulation tools provided by BASF and DSM on the internet allow everybody to design such sunscreens. I had the opportunity to present a sunscreen from the Canadian sunscreen company Cyberderm that achieves spectral homeostasis shielding.

### Are there any new findings on sunscreen agents?

Nowadays, the focus seems to be on less ingredient, e.g. to make "free-from" claims. New UV filters have to undergo safety evaluation by the **SCCS\*** committee. Some papers at the conference described new natural sunscreen agents, e.g. **Betel Leaf Oil**. This oil with its absorption in the UVC/B range 250–310nm, is not a complete UVB filter and thus of limited value. In contrast to this new development, polymers that act as film-formers and thus as boosters for SPF, UVA-PF and water-resistance could be more interesting. However, there are uncertainties due to SPF measurement methods, so such effects are difficult to demonstrate.

### Are there any new repair mechanisms for restoring the structure of UV-damaged proteins in the skin?

Stéphanie Bredif from Expanscience et al. compared the DNA repair system in infant, children or adult skin cells. At basal level repair capacities globally declined in adult donors in comparison to other age-groups. However, the response of adults' skin cells ►



Betel Leaf Oil is a new natural sunscreen agent





Pre-treatment of the skin prior to sunscreen application can increase UV protection efficacy

seems to be more specifically adapted to solar irradiation. Particularly, after irradiation, the relative repair of CPD and CPD-64 was upregulated only in adults. Adults seem to adapt their repair system in response to solar irradiation by enhancing the relative contribution of Nucleotide Excision Repair. These results led researchers to the conclusion that young skin that is not yet fully adapted requires more care.

### What were the latest findings in UV filter interaction?

A joint research project of **DSM** and the **University of Applied Sciences Wädenswil** investigated the interaction of UV filters with PMMA plates that are used to determine SPF and UVA-PF in vitro. Their key finding was that the experimental skin roughness function correlated well with oleophilic UV filter, but not with hydrophilic UV filter containing sunscreens. Segregation between oleophilic and hydrophilic UV filters strongly depended on the substrate used. These findings help to improve future in vitro and in silico methods.

#### THE WHO

considers the whole UV range carcinogenic

New silicone particles with **UV filters** which can shift **UV absorption of UVB filters** into the **UVA range** do not permeate the skin

#### THE EVIDENCE

for blue light protection is more convincing than for infrared protection

### What were some new findings concerning UVA and UVB boosters?

As particles can scatter, they can boost both UVA and visible light protection.

A contribution of Young Baek Kim et al. from **PaiChai University** presented silicone particles with UV filters which essentially shift UV absorption of UVB filters into the UVA range. This phenomenon is already known from the particulate organic filters MBBT and TBPT. Such particles would have a double advantage: their performance and also their safety, since they do not permeate the skin.

### What kind of cosmetic pre-treating products enhance the sun protection factor of sunscreen?

Researchers from **AmorePacific** investigated the influence of pre-treatment of the skin prior to sunscreen application. The real-use routine of sunscreen consumers consists in using sunscreens after having used a facial skin care pre-treatment product.

This routine was shown to increase UV protection efficacy. This alternative can compensate for the insufficient quantity of sunscreens applied in a second step.

### What is the potential of plant polyphenols as natural photostable sunscreens?

UV filters can be found in nature in plants and animals, e.g. Mycosporine-like Amino Acid (MAA's) sunscreens. However, identifying the efficacy of such filters is just a first step. There is a very long way to go before commercialising this type of filters with many hurdles, especially in terms of safety evaluation, because animal testing is not allowed in Europe.

### What new methods help to determine light protection?

#### More information at

[www.cossma.com](http://www.cossma.com), web code 100117

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The classic SPF and UVA assessment methods only determine protection under special laboratory conditions, i.e. solar-simulated light. They are based on the erythema and pigmentation endpoints and do not provide any information beyond the UV range. The emerging non-invasive HDRS method (hybrid diffuse reflectance spectroscopy) can provide such information about visible protection and thus has the potential to replace the traditional SPF and UVA methods. Dr Mathias Rohr from the Institute Dr Schrader showed in his presentation that this method is ready and commercially available.

### Are there any new approaches in shielding skin from environmental stress factors?

Prof Dr Jean Krutmann's impressive keynote on this topic provided the scientific evidence that air pollution contributes to skin ageing. Air pollution is the second most important environmental factor, after UV radiation, which contributes to the formation of facial lentigines. Nutrition is also an important factor for pigment spots on cheeks. A model can distinguish the contributions of the various risk factors, such as genetics, sunbed use, diet, skin type, air pollution, smoking, social status, etc. The approach of protecting the skin from environmental stress factors is not new. It basically consists in shielding the skin with the help of appropriate filters, mainly against UV, and the catching of reactive oxygen species (ROS) by anti-oxidants. □

\*Scientific Committee on Consumer Safety

Additional information can be found on the Internet – see Internet panel



# INTERNATIONAL LAUNCHES

**Product Development** | This month Michelle Strutton from Mintel looks at cosmeceuticals, including among many others doctor brands, anti-acne treatments, cellulite treatments, and products for problem skin. Here we have selected a range of the very latest innovative products recently highlighted on the company's GNPD\*.

More information at

[www.cossma.com](http://www.cossma.com), web code 100124

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**S**kin irritation can show in a variety of ways such as redness, itching or pain, and is triggered by several external factors or skin conditions.

According to our research, over a quarter of Southern Europeans suffer from skin irritation caused by chronic conditions such as eczema, and nearly a quarter of Italians believe they have skin issues that are set off by pollution. In the UK, younger consumers are the most affected by hand and body skin irritation.

The prevalence of sensitive skin is growing across the globe, yet according to our research, many US multi-functional body care products underperform in reducing skin irritation for those with sensitive skin.

In the US, 77% of sensitive skin consumers would consider buying body lotion to reduce skin irritation, rising to 83% for the iGeneration. Mean-

while, in Europe, women are frustrated by allergies and are seeking effective products to prevent or ease skin discomfort, redness and swelling. Here Mintel looks at the products on offer to help relieve these and other issues for today's consumers.

## Cannabis for anti-ageing

In the USA, the **Defynt** brand has been created to disrupt traditional skin care by incorporating CBD (cannabidiol) into skin care routines. According to several studies, cannabidiol exerts sebostatic and anti-inflammatory effects on human sebocytes and has a potential therapeutic value in the treatment of psoriasis. Due to the Amplifi nano-technology, small CBD molecules can penetrate deep into the skin, increasing its active healing effects by up to 20 times. The **Anti-Serum** is packed with anti-ageing ingredients combined with CBD's antioxidant, anti-ageing, anti-bacterial and anti-inflammatory properties.

## DEFYNT

The serum is packed with anti-ageing ingredients combined with cannabidiol



with daily use. Its formula contains 10% blend of three acid actives.

## Reduces muscle tension

In the UK, the **All Naturals** brand offers natural and organic products with scientifically proven effects. **Sport Ultra Performance Soothing Body Oil** for men with an active lifestyle is designed to maintain skin electrolyte balance, reduce muscle tension and improve blood circulation, while speeding up muscle hydration and aiding re-energising.

\* Global new products database

Additional information can be found on the Internet - see Internet panel



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## GLOSSIER

The exfoliator claims to transform skin in four weeks



## ALL NATURALS

The lotion helps soothe away muscular tension



## Mood-boosting anti-acne hydroxy acid mix

In the UK, **Glossier** is a modern beauty range inspired by what girls need in real life, e.g. **Solution Exfoliating Skin Perfector**. This acne treatment exfoliator claims to transform skin in four weeks, by gently sloughing dead cells away through chemical exfoliation, dissolving the bonds gluing problematic dead cells to the healthy skin beneath, penetrating into pores to reduce acne and help prevent new acne, whilst reducing redness, blemishes and pore size

More information at

[www.cossma.com](http://www.cossma.com), web code 100118

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Password: **derma**



# HOW TO ENHANCE PERFORMANCE

**Ingredients** | Bart Maxon from Dow shows the versatility of silicone chemistry and explains what types of silicones to use for what benefits in different product categories.



**P**ersonal care is an ever-evolving market with consumers demanding more efficacy and immediate results from their products. With these high expectations and a constant drive for performance, cosmetic chemists and formulators depend on innovative ingredients to create differentiated products, but also increase speed to market.

Since they were first introduced to the personal care industry in the 1950s, silicones have become indispensable ingredients in many personal care formulations.

Silicones are a unique family of polymeric materials which offer a wide range of benefits when incorporated into formulations. By taking advantage of silicone's multifunctional and versatile characteristics, formulators use silicones in many product applications to create new product forms and achieve new benefits.

### The chemistry of silicones

A brief understanding of basic chemistry and the different categories of silicones highlight why silicones play a vital role in the creation of high-quality, high-performance skin care products. Silicones are a wide variety of polymer materials and networks that contain siloxane bonds (i.e. the repeat unit  $\text{-Si-O-}$ ). This siloxane backbone is very strong, yet flexible. These characteristics are responsible for many of the unique properties of silicones.

The ability to attach different organic groups to the siloxane backbone leads to a broad variety of materials. As variations on the structure are almost endless, silicone chemistry is almost as broad as carbon chemistry. Modifications such as variation of molecular weight, addition of organic functionalities, (polyether, alkyl, amino, etc.) result in a range of materials, from volatile fluids to gums, resins, waxes, and elastomers. The International Nomenclature of Cosmetic Ingredients (INCI) database of the **Personal**

The **INCI database** documents over 500 silicone materials

### SILICONES

were introduced in the personal care industry in the 1950s

The use of **anti-ageing products** starts at 26

**Multifunctional silicones** can be used for new product forms and benefits

**Care Products Council (PCPC)** documents over 500 silicone materials illustrating the diversity of this chemical family.

Silicones are recognised as multifunctional ingredients with a unique set of chemical and physical properties. They can bring benefits including sensory and texture enhancements; emolliency and spreadability, transient to long-lasting effects, wash-off and transfer resistance, non-occlusive to semi-permeable films, SPF enhancement, delivery and stabilisation of actives, protection, and cleansing benefits<sup>1,2,3</sup>.

### Increased spreadability and skin protection benefits

Silicones yield a variety of consumer-perceived benefits when formulated into skin care and colour cosmetics products. Incorporating silicones makes formulations more spreadable. It also impacts the dry time and imparts an aesthetically appealing after-feel.

Formulation of hand and body care (moisturisers) typically rely on four silicone categories:

- **Volatile silicones** serve as a delivery agent for other silicones or actives and provide transient spreadability and slip when incorporated into formulations.
- **Non-volatile dimethicone fluids** are part of the most widely used silicones because of their good spreadability and emolliency in formulations in addition to a smooth skin feel as well as skin protection claims.
- **Silicone gum blends** provide a heavier sensory feel, substantivity and longer-lasting properties.
- **Silicone waxes** provide moisturisation benefits through their occlusivity and allow for unique textures.

According to the U.S. **Food and Drug Administration (FDA)**, the **National Formulary Monograph (NF)** grade dimethicone may be formulated as an active ingredient for over-the-counter (OTC) ►



#### AUTHOR:

Bart Maxon, Senior TS&D Scientist, Dow Consumer Solutions, Midland, Michigan, USA  
www.consumer.dow.com

# "THE MULTIFUNCTIONAL PROPERTIES OF SILICONES HELP TO CREATE NEW TEXTURES AND PRODUCTS WITH CONSUMER-PERCEIVED BENEFITS"

Bart Maxon, Senior TS&D Scientist, Dow Consumer Solutions

skin protectant drug products with a concentration range from 1 to 30 percent<sup>4</sup>. The National Formulary provides further specifications for NF grade dimethicone used as actives in skin protectant OTC formulations to be in compliance with the FDA. The National Formulary monograph for dimethicone NF grade is limited to viscosities between 20 cSt and 30,000 cSt.

The selection and use level of a silicone is key in determining the aesthetics of the resulting formulation (both during and after application) and the formulator can achieve dramatically different aesthetics by varying these. Volatile fluids are popular due to their fast dry time, spreadability, and smooth skin feel. Dimethicone fluids (such as 10 or 20 cSt) spread quickly while providing a light, smooth skin feel. Higher viscosity dimethicone fluids (10,000-30,000 cSt) form more per-

sistent hydrophobic films with good water barrier properties. The viscosity of the dimethicone will affect the aesthetic properties such as spreadability, light- or heaviness, oil- or greasiness, and speed of perceived absorption.

## Experience a deeper clean

With the help of certain silicones less irritant skin cleansers and body washes with an improved foam quality and a creamier, more stable feel can be created<sup>5</sup>. By providing a more moisturised skin feel, consumers may experience a more thorough sense of cleansing, leaving skin perceivably smooth.

Two key silicones used in formulating skin cleansers and body washes include:

- **Silicone polyethers:** when combined with anionic surfactants, water soluble dispersible silicone polyethers such as PEG-12 Dime-

thicone or Bis-PEG-18 Methyl Ether Dimethyl Silane are known to reduce skin and eye irritation, improve the foam quality, and create a creamier, more stable foam.

- **Divinyldimethicone/Dimethicone Copolymer** is a very high molecular weight silicone that was developed specifically for body wash applications and provides a substantive, emollient skin feel.

## Combating ageing with silicones

A new emphasis has been placed on anti-ageing products as millennials report that they start using them at the age of 26, much earlier than those aged 55 who claim they started using them at the age of 47. This shift in demand has driven new property standards for anti-ageing products to provide a silky, smooth skin feel and wrinkle-masking effects suitable for a wider range of consumer

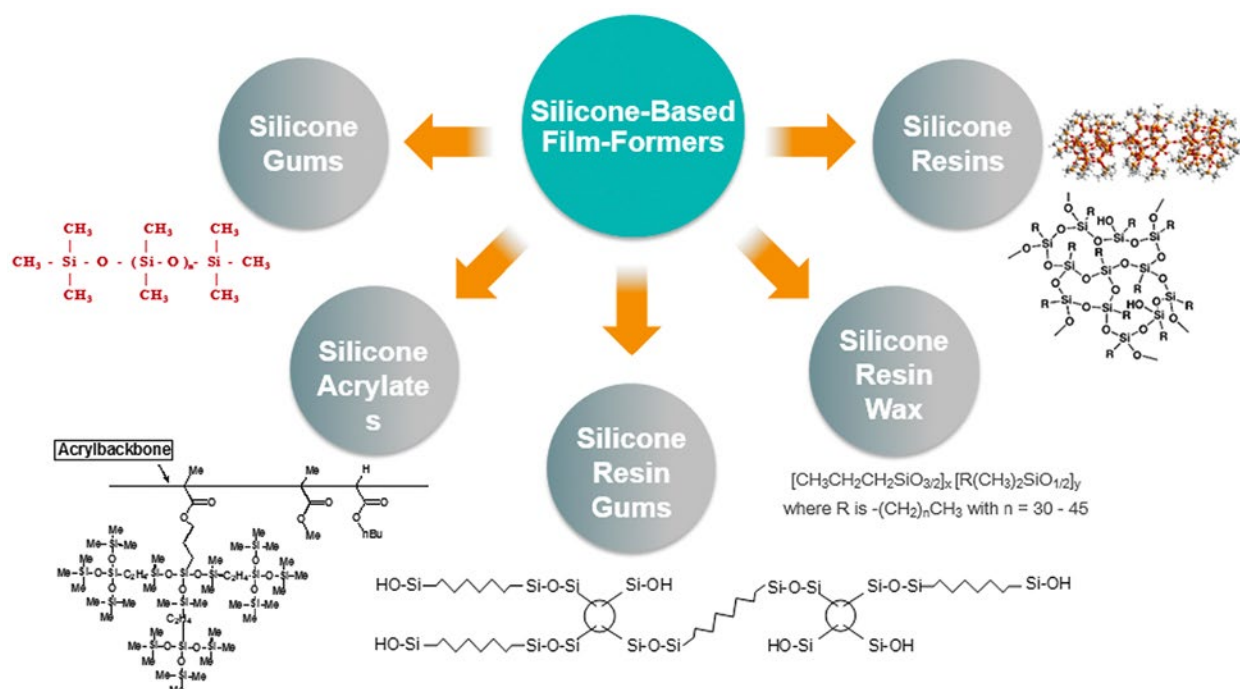


fig. 2: Silicone film forming technologies



Aesthetically pleasing colour cosmetics require uniform pigment films with good spreading properties

ages. For brand owners this development opens up the opportunity to claim a large share of the market. After all a younger start of product usage increases the years of product usage considerably. It also means that brand loyalty can be engendered among consumers over a period potentially spanning 50 years or more.

Anti-ageing products are typically formulated with silicone elastomers. These ingredients with their cross-linked silicone structures have an elegant silky feel and provide a matte finish when applied to the skin. Silicone elastomers serve as a good binder for compressed powder formulations and increase formulation viscosity. End-use benefits include a silky-powdery, non-greasy feel, matte non-shiny appearance to skin, oil absorption and wrinkle masking.

Test results demonstrated silicone's wrinkle masking effects and sebum absorption properties. When used in a water-in-silicone cream, a silicone elastomer powder dramatically decreased the appearance of wrinkles, while also providing the benefit of absorbing sebum on the skin (see fig. 1\*).

Silicones used in anti-ageing facial care products can be broken down into four categories, offering a wide range of benefits to find the perfect fit for each application, including:

- **Silicone fluids and silicone gum blends** to enhance spreading of formulations and impart smoothness.
- **Silicone emulsifiers** promote formulation flexibility for water-in-silicone (W/Si), water-in-oil (W/O) and water-in-oil-in-water emulsions.
- **Silicone powders and silicone elastomer blends** provide silky to powdery aesthetics, wrinkle masking properties, soft focus and blurring effects, sebum absorption, unique textures and active delivery.
- **Alkyl Methyl Siloxanes** offer improved compatibility with organic ingredients, wash-off resistance, barrier protection, skin hydration and improved UV protection in sunscreen formulations.

### Creating brighter colour cosmetics

Silicones have a long history in colour cosmetics due to their role

#### VOLATILE FLUIDS

are popular due to their fast dry time, spreadability, and smooth skin feel

Aesthetically pleasing colour cosmetics require **uniform pigment films** with good spreading properties

**Certain silicones** help to create **less irritant** skin cleansers and body washes

in creating light, oil-free, long-lasting, smudge-proof and transfer-resistant products. In liquid foundations, mascaras and lip products, a key to achieving aesthetically pleasing products and even colour is to create uniform pigment films with good spreading properties.

Volatile silicones such as Cyclopentasiloxane, Trisiloxane, and low viscosity Dimethicone are suited for these applications due to their volatility, hydrophobicity and spreading properties. These silicones have a non-greasy, light feel and contribute to a smooth and uniform application of the product. Treated pigment particles with a hydrophobic coating are more compatible with silicone fluids and are well-suited for delivery from a silicone-based formulation. This facilitates the pigments to be spread evenly and improves application on the skin. Silicone film forming technologies play a key role in colour cosmetics as formulators feel more pressure to achieve longer wear while having to balance other properties such as comfort, colour trueness, and removability. Silicone resins are film formers designed to create long-lasting benefits. Combining ►





fig. 3: Silicone resins and silicone resin gums film flexibility

them into the oil phase of formulations, provides improved substantivity and the extended wear characteristics (non-transfer, wash-off resistance) required for colour cosmetic products such as lipstick, mascara and foundations.

Known for providing enhanced wearability, silicone acrylates equip products with long-lasting comfort and non-transfer properties. These non-occlusive polymers also provide the benefits of wash off resistance, and sebum resistance, see fig. 2.

In an experiment, the film flexibility of silicone resins and silicone resin gums in colour cosmetics was compared. The study assessed the flexibility of the silicone film forming technologies on an elastic band based on the amount of cracks after extension and release. Results found that the silicone resin gums Trimethylsiloxysilicate and Dimethiconol Crosspolymer display higher film flexibility than traditional Trimethylsiloxysilicate (MQ) resins, with MQ resins forming brittle films, see fig. 3\*. The propyl resin Polypropylsilsesquioxane and silicone acrylate Acrylates/ Polytrimethylsiloxymethacrylate also form soft, flexible films.

Water-in silicone emulsions are the basis for multi-performance cosmetics products such as foundations and mascaras and silicone emulsifiers. **Dowsil ES-5600 Silicone Glycerol Emulsifier** for example provides formulation flexibility, high dispersion capability for greater colour intensity

and even tone, and high stability to help create stable low-viscosity formulations.

#### Efficient sun protection

Sun protection products include daily wear moisturisers, anti-ageing products with SPF, and recreational sunscreens targeted towards UV protection. The need for effective sun care products has skyrocketed due to the increasing global awareness of UV damage.

Consumers not only want high-quality sunscreen, but they desire sun protection properties in all of their personal care products. The use of silicones in sun protection products enables good UVB/UVA protection and improved water and wear resistance with excellent aesthetics. Helping eliminate the common stereotype of tackiness and heavy feel with sun care products, silicones can help reduce oiliness of formulations and impart a non-greasy silky feel.

Silicones offer special sensory and formulation benefits for the sun protection category:

- **Volatile silicone fluids** act as a carrier for sunscreen actives in recreational and daily wear products. Providing short term lubricity and spreadability, their fast dry time yields a light smooth skin feel
- **Non-volatile silicone fluids** are low to medium viscosity fluids used to improve spreadability of formulation, reduce tackiness and provide a smooth sensory feel.

- **Alkylmethylsiloxanes** offer important end-use benefits, including long-lasting, wash-off resistance, barrier protection and SPF enhancement. **Phenyl silicones** are compatible other silicones and provide long lasting long-wear characteristics and wash-off resistance with comfort.

- **Silicone polyethers** such as PEG, PPG-18/18 Dimethicone and Cetyl Diglyceryl Tris (Trimethylsiloxy) silylethyl Dimethicone serve as emulsifiers for W/O or W/Si emulsions and allow for formulation flexibility. They provide reduced whitening in physical mineral-based sunscreen formulations, but also serve as dispersants to assist in uniform coverage of the sunscreen during application

- **Silicone resins and silicone-acrylate resins** provide long-wear characteristics and wash-off resistance. Designed for comfortable, long-lasting performance in sun care, **Dowsil FA 4003 DM Silicone Acrylate** provides formulations with multiple benefits including rub-off, water resistance, high film integrity, SPF-boosting characteristics and a smooth non-tacky sensory profile.

#### Continuous innovation

The challenges personal care formulators continue to face include the pressure to innovate and stay ahead of competitors with high-performance, trend-driven products remains top priority. The first step to creating quality products that attract market share and engender brand loyalty begins by choosing not only quality ingredients, but the right ingredient for each application. Silicones have been adapted over the years to constitute key ingredients within the beauty care market. The versatility of this chemistry set with its multifunctional properties allows the cosmetic chemist to create new textures and products with consumer-perceived benefits to meet the needs of this ever-changing market.

□

\*This figure, the references and additional information can be found on the Internet – see Internet panel

# SPRAYS & MORE

**Formulations** | Are you looking for sprays, foams and gel formulations for different personal care categories? Then this selection will surely be helpful. The details of the formulations listed are available free of charge on our website, at [www.cossma.com](http://www.cossma.com). Just enter the web code 100119\* of the Internet panel and you can access the relevant details on each formulation straight away.

\*Additional information can be found on the Internet, see Internet panel



## SEPPIC Air Liquide Healthcare Specialty Ingredients

22, Terrasse Bellini,  
Paris La Défense  
92806 Puteaux, France  
phone: +33 (0)1 42 91 40 00  
[www.seppic.com/markets/beauty-care](http://www.seppic.com/markets/beauty-care)

**PROFILE:** Seppic is a designer of specialty ingredients for health and beauty care. As a subsidiary of Air Liquide Healthcare, it contributes to protecting vulnerable lives through prevention and well-being. Seppic is expert in the four following technologies: Polymer Science, Plant-based Chemistry, Marine

Biotechnologies and Botanical Extraction. Seppic enlarged its technologies in 2017 with the acquisition of a new subsidiary Serdex, a specialist of botanical active ingredients.

In 2018 Seppic launched wesource, a complete and innovative offer comprised off 85 active ingredients for cosmetics. Sourced from marine biotechnologies, botanical extractions, and plant chemistry, these active ingredients are unique because of the inspiring stories they convey. Through their technicity and efficiency, they create solutions that reveal beauty.

## FORMULAS:

- Evening Minimalist Make-Up Remover
- Hiking Pocket Shower
- Time Break Mist
- Hydrating Cryo-Geltrap Mask
- Purifying Scrub Gel

In the December issue, we will be focusing on formulations for lotions, creams, exfoliants. In our January/February issue formulations for facial care and colour cosmetics will take centre stage. All of the information published here has been carefully assembled. Neither the publishers nor the developers of these formulations can accept responsibility for its safety or accuracy.

Additional information at

[www.cossma.com/web\\_code\\_100119](http://www.cossma.com/web_code_100119)

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Blue Light Protective Nourishing  
Jelly O/W Surfactant Free  
Daito Kasei

Sprayable Transparent Jelly  
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with Heat Protecting Properties  
Evonik

Gentle Spray SPF 30  
DSM

Clog-Free Zinc Spray SPF 30  
HallStar

Tousle time leave on conditioning mousse  
Kahlwax

Men's Conditioning Face & Beard  
Cleansing Gelée  
Kobo

Mild Micellar Cleansing Foam  
NRC

Instant Powder-Foam Mousse  
J. Rettenmaier & Söhne

Extreme Hair Gel  
ROELMI HPC

Sun Lotion Dry Feeling SPF 50  
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Skin Illuminating Spray to Mask  
Sederma

Shaving Foam for Men  
TER Chemicals

Cooling Gel  
Zschimmer & Schwarz



# NEWS

## Merging fragrance and cosmetics

### GIVAUDAN ACTIVE BEAUTY |

Givaudan Active Beauty has created **Fragrance on the move**, a concept with four products merging cosmetics and fine fragrances. The products are dedicated to one specific part of the body, combining more than 10% of fragrance and skin care to enhance the daily beauty routine. **Attraction** is a neck and décolleté lotion. **Perfection** is a dry body oil SPF 20. **Affirmation** is a hair elixir, and **Sensation** is a light legs mist featuring **Evercool skin**, a cooling technology.

\*Source: Givaudan Active Beauty G-source survey 2018  
www.givaudan.com/activebeauty



The daily beauty routine enhanced with fragrance

## FOR A GOOD HAIR DAY



Hair becomes easier to manage and smooth to the touch

### GATTEFOSSÉ |

**Definicire** is a hair care ingredient, mimicking the beneficial conditioning and protective properties of hair sebum without the greasiness. Central to the composition are high molecular weight esters found in the hull of the sunflower seed and in jojoba seeds. Tests demonstrate that hair regains hydrophobicity and is protected from humidity and frizz. The composition replaces silicones in hair treatments. **Definicire**

is close to sebum in chemical structure, but with slightly higher carbon chain lengths to optimize performance and avoid greasiness.

www.gattefosse.com



## Multifunctional eye care

**PROVITAL | Eye'fective** is the combination of two white flowers, hawthorn and Arabian jasmine, which work in synergy to create a multifunctional effect on the eye contour. The active has a triangle care effect, reduces dark circles, lifts up droopy eyelids and blurs wrinkles. The in vivo test showed

good results after only 14 days. Another panel confirmed a perceptible upper eyelid lifting effect after only 2 weeks. The ingredient also visibly works against wrinkles.

www.provitalgroup.com



With the essence of white flowers



The active maintains skin's normal physiology

## Anti-blue light

**HALLSTAR |** The anti-blue light, anti-pollution active **Blue Oléoactif** is extracted through a green extraction process from three varieties of rice and nutritive rice germ and with complementary phytochemicals from soybean oil. Clinical results prove that it maintains skin's normal physiology in the presence of urban pollutants and blue light by boosting cell's defense and repair systems.

www.hallstar.com

## CHOICE OF HALAL

**SYMRISE |** Symrise offers more than 200 products that comply with Islamic law. Symrise's Halal-certified manufacturing facilities in Singapore and its headquarters in Germany comply with the strict Halal guidelines.

www.symrise.com



More than 200 Halal-certified ingredients on offer

## ELASTOMER POWDER



For a velvety, no-tack finish

**DOW | Dowsil EP-9610** is a cosmetic powder for color and skin care. It provides processing ease, smooth aesthetics, sebum control and a matte finish.

### Dow Luminous

**Facial Serum** formulated with this powder received first place against 30 entries for the **In-Cosmetics Korea** formulation award due to its sensory aesthetics, product performance, and benefits to end-consumers and formulators.

www.consumer.dow.com

## Oil from laurel berries

**NATURAL SOURCING | Laurel Berry Oil** is now part of the company's ethically-sourced product range of over 500



With moisturising and soothing properties

certified organic and conventional natural ingredients. It is rich in consistency and can soothe dry, flaky skin. The oil is produced by boiling laurel berries until the seeds and pulp separate. The nutritive oil that floats to the top is carefully collected.

www.NaturalSourcing.com

## NEW EFFICACY DATA



Obtained from local chestnuts

**SILAB |** The natural active **Recoverine**, launched in 2003, stimulates epidermal homeostasis. New data show its capacity to control homeostasis in the stratum corneum by stimulating two powerful

upstream biological mechanisms. New in vivo tests also demonstrate that the ingredient reduces transepidermal water loss.

www.silab.fr


 Star  
OF THE  
Month

# A NEW TYPE OF HAIR DYE

**Ingredients** | Diazo dissociative dyes are a new class of physical direct hair dyes which have qualified as November's Star of the Month as they create a multi-layer dyeing patterns in the hair's cortex which leads to a 3D reflection of light, thus changing hairs' colour depending on their movement.



The global market of hair colouration obtained a turnover of about 20 billion US-\$ according to the market research company Kline. In the EU, nearly 70% of women use some kind of hair colour while in the US even 75% use it.\* Due to an ageing population keen to cover their grey hair and fashion-conscious consumers keen on changing their looks, the market segment of hair colouration is thriving. The market is dominated by oxidative dyes which deliver effective grey coverage and good durability. However, oxidative dyes provide dull and one-dimensional colour and in addition, there is only limited scope for innovation.

## New class of physical direct hair dyes

New diazo dissociative dyes are a completely new class of physical direct hair dyes. Thanks to the precisely designed structure and charge distribution, these dissociative dyes show high brilliance and durable colour on the hair. At the same time, they are mild to the skin. Furthermore, the unique structure and charge distribution creates multi-layer dyeing patterns in the hair's cortex. These patterns lead to a remarkable shine and a 3D reflection of light, which changes hairs' colour visually depending on their movement.

The **Novel High Definition Dissociative Delocalized Dyes, HD3 dyes**,

which show unique 3D light reflection on hair, have been synthesised and applied either as a colour-giving treatment after the oxidative hair colour service or as an additive to oxidative hair colouring products.

This new technology can customise and transform the colour results from conventional oxidative hair colour, especially in the professional hair colour market, where stylists play around with colour in order to exploit the maximum of their creativity. □

AM

The new class of direct hair dye resulted from a collaboration between Kao Corporation, Fujifilm Corporation and Dresden University of Technology. [www.kao.com](http://www.kao.com)

\*Goldstein Research

Source: High Definition Dissociative Delocalized Dyes: A New Class of Physical Hair Dyes with Unique 3D Reflection on Hair, Takahito Nakamura from Kao et al. presented at the IFSCC Congress in Munich





# KEY TRENDS SHAPING THE AEROSOL MARKET

**Aerosols** | How is the market doing and what are the latest developments?

Together, the members of the international organisation of **Aluminium Aerosol Container Manufacturers** (Aerobal) produced nearly 3.3 billion cans in the first half of 2018, substantially more than in the same period the year before. Adjusted for the production output of new member companies, this figure represents remarkable market growth of about 5%.

Demand for deodorants and antiperspirants remains brisk worldwide. This is one of the main reasons for the good production output. Other cosmetic products such as dry shampoos, foaming shower gels, and sun creams also contribute to the more than satisfactory growth rates for the industry. Moreover, demand from the

promising pharmaceutical sector is still on the rise.

An analysis of the globally significant economic areas shows that the European and North American markets, which dominate the scene in terms of quantity, remain stable at a high level. It is largely the markets in Asia and South America that are giving fresh impetus for growth.

## What about sustainability?

The global discussions about microplastic in the environment and the growing quantities of plastic waste in the oceans also speak in favour of metal packaging. This is precisely because, from the standpoint of sustainability, aluminium has clear advantages over other types of packaging

materials. As aluminium constitutes a permanent material, it can be recycled infinitely without any loss of quality. In addition, aluminium has the highest pecuniary value among all packaging materials, thus providing an effective incentive across the entire supply and production chain to collect valuable aluminium and to recycle it in an ecologically sound manner.

Aluminium container manufacturers are conducting intensive joint research with upstream material suppliers on new alloys for containers. "These alloys will help to reduce the already low weight of aluminium containers to an even greater extent, thereby achieving the highest possible level of resource efficiency. This

will, in turn, further improve the CO<sub>2</sub> foot-print of aluminium containers,” explains **Aerobal** President Leopold Werdich from **Tubex**, see page 37.

[www.aerobal.org](http://www.aerobal.org)

### Sustainable approaches

**Colep** has collaborated with **Henkel** to deliver lightweight tinplate cans for the professional hair styling brand **Syoss**. The aerosol supplier developed the new packaging solution in a move to provide customers with a more sustainable packaging solution which uses less materials, energy and water. Combining mathematical models, process investments and new materials, they reduced the material consumption in the three metal components. The wall thickness of the aerosols was reduced by around 22%, using double reduction material harder material with lower wall thickness in combination with a new seaming station. The cans have been reduced in weight by 18%, a

significant saving associated with the classical 3-piece tinplate can manufacturing process. The lightweight cans are being used for 400ml and 500ml hairspray products in the following main brands: **Syoss**, **Indola**, **Silhouette**, **Coiffeur** and **Rilken**.

[www.colep.com](http://www.colep.com), [www.rar.com](http://www.rar.com)

### Future-oriented packaging steel

The new **Rasselstein Solidflex** packaging steel demonstrates thickness reduction potential. The material was developed by **Thyssenkrupp Rasselstein**, a global supplier of high-tech packaging steels, and **Maiko Engineering**, a specialist in tool and machine construction.

The recently launched packaging steel is already widely used in the production of aerosol can bottoms and tops. Yield strengths of at least 600 MPa, combined with an elongation of over five percent, are ideal for manufacturing these components.

**Maiko** optimised their forming tools in order to harness the potential of reduced thickness. **Thyssenkrupp Rasselstein** offers a large variety of steel grades for every application and every filling: tinned or special chromium-coated, plain, lacquered or film laminated. In addition to a wide variety of coating combinations and surfaces, as well as different lacquer coating weights, material and film thicknesses, the company also offers BPA-NI solutions.

[www.maiko-engineering.de](http://www.maiko-engineering.de); [www.thyssenkrupp-steel.com/en/company/locations/thyssenkrupp-rasselstein-gmbh/](http://www.thyssenkrupp-steel.com/en/company/locations/thyssenkrupp-rasselstein-gmbh/)

### Award-winning aerosol achievements

The **FEA Global Aerosol Awards** were launched to celebrate the creativity and technical excellence of the aerosol industry. Components and machine manufacturers, aerosol fillers, marketers and retailers were encouraged to enter any innovative aerosol products which they launched between November 2016 and June 2018. Five nominees per category, among 28 entries from 16 companies, were selected. The awards were presented by Bertrand Piccard at the **FEA Awards Dinner** on 4 October 2018 at CCD Düsseldorf in Germany. These were the winners:



Colep's aerosol cans for Henkel were reduced in weight by 18 %

The product that won in the category **Most Creative Aerosol Marketing Strategy** was **Henkel's got2b** by **Julien Bam**. This limited edition of **got2b Sprühkleber** hair lacquer can be used for just single strands or the entire head. The influencer and YouTube star with 4.5 million followers designed this limited edition. His typical dance moves decorate the bottle. For his fans he signed the bottle and left a personal message with a reference to his YouTube channel.

The winner in the category **Most Innovative Aerosol Product** was **L'Oréal's Colorista Spray**. These 1-day colour sprays are available in seven different pastel and bold colours and can be simply washed out when washing the hair.

In **Innovation in Aerosol Packaging Design** **Beiersdorf's Nivea Aerosol Deodorant** took home the award. At the centre of the relaunch of the female deodorant was a more feminine, more modern and more elegant new design with a completely new shape with the aim to be relevant for at least a decade to come. On the company's production lines 300 pieces are produced per minute. **Mall + Herlan's Dove Organza** qualified in the category **Environmental Achievement & Sustainability in the Aerosol Industry** as the aerosol can is 20 % lighter, uses 65% recycled aluminium, and contains 20% more product per pallet.

[www.aerosol.org](http://www.aerosol.org)

### Attractive aerosol solutions

**Ball Corporation** recently won the 2018 **Euro CanTech Awards** from ►



L'Oréal's 1-day colour spray won FEA's innovation award

Limited edition designed by a YouTube star



Rasselstein Solidflex can be used for aerosol can tops and bottoms

**CanTech International** for its metallic **Ball**-branded aluminium aerosol deodorant. For the aerosol can, the company developed a cost-effective solution for customers who want the look of hot stamping, that is where a metallic foil is applied to the can. Using state-of-the-art pigments and the company's special ink application technology, a glossy, reflective sheen can be applied on aluminium cans of all shapes and sizes and is available in a range of metallic shades.

www.ball.com

### Aerosols: finished products

**Weener Plastics (WP)** was chosen to design, develop and manufacture the twist-lock spray cap for **Nivea**, see lead photo. The elegant 5-piece high-end polypropyl-

ene cap offers a very fine spray pattern. The ergonomic design allows convenient left- and right-handed activation of the button. The finger grips on the sides allow for easy opening and locking by twisting. This twist-lock function ensures firm closure in the locked position which makes it safe for storage and on-the-go use. WP was also responsible for tooling and engineering. Advanced mould sets and newly developed assembly technology enhance high-speed manufacturing. Furthermore, product and stock handling are fully automated. The **Nivea** deodorants and anti-perspirants are packaged in appealingly-shaped aerosol cans, each with different protective formulas and actives for a long-lasting feeling of freshness. They all have the new

The markets in Asia and South America are giving **fresh impetus** for growth

Other cosmetic products such as dry shampoos, foaming shower gels, and sun creams also create **growth rates**

### DEMAND

for deodorants and antiperspirants remains brisk worldwide

The **European** and **North American** markets dominate the scene in terms of quantity

spray cap with the Nivea-blue button enhancing the brand identity.

www.wppg.com

### Aerosol accessories

**Lindal Group's EMT** is designed for use with compressed air and with regular 1 inch valves or bag on valve systems. The new nozzle technology is designed for low viscosity water-based products, such as water and skin care solutions. It produces a quiet and gentle mist which dries quickly. It also offers improved spray reproducibility and helps to reduce and even eliminate Volatile Organic Compounds (VOCs).

Another new development is the **Smart Dispenser**, a new foam dispenser produced by **Lindal** exclusively for the specialty chemical company **Dow Chemical**. Designed for the home improvement market, the easy-to-use dispenser automatically prevents foam drips and seals without additional input from the user.

www.lindalgroup.com

### Improvements in decoration

**Sun Chemical's SunAltec** series is a range of inks for metal decorating on monobloc aerosol cans. The **MB Plus** series has been designed for monobloc aerosols and the **Sun-Trio** range for three-piece cans for sheetfed printing has good press performance

www.sunchemical.com

AM

- ADVERTISEMENT -

## KRÜSS: Mobile and fast quality control of cleaning and coating baths



Bubble Pressure Tensiometer – BPT Mobile for quality control of industrial baths containing cleaning or wetting agents

KRÜSS presents a novel solution for quality control of industrial baths that contain cleaning or wetting agents. The new Bubble Pressure Tensiometer – BPT Mobile is an instrument for determining the surfactant content by means of the dynamic surface tension (SFT) of a solution. Working independently from a computer or the power grid and providing results within a few seconds, it is particularly suitable for regular quality checks. Whether an industrial bath obtains the required cleaning or wetting effect depends on the concentration of free surfactant, which decreases over time due to contamination of the bath or adsorption at the workpiece. The dynamic SFT reacts particularly sensitively to changes of the surfactant concentration

so that bubble pressure measurements with the BPT Mobile quickly and reliably reflect the bath's quality. The internal memory of the grid-independent instrument has room for more than two million measurements, which can be tidily sorted into folders. Whenever necessary, the instrument can be connected to a computer, behaving like a mass storage device, to export measurements to Excel with one click in order to carry out customized data analyses.

### FURTHER INFORMATION:

KRÜSS GMBH | BORSTELER CHAUSSEE 85 | 22453 HAMBURG | GERMANY | WWW.KRUSS-SCIENTIFIC.COM

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# IMPROVED SUSTAINABILITY

**Interview** | What are the challenges concerning the sustainability of aerosol cans and what is the future potential for increasing their sustainability?  
Leopold Werdich from Tubex explains.

► **Interview with:**  
Leopold Werdich  
President of Aerobal  
and Managing  
Director Tubex  
Rangendingen  
Germany  
www.tubex.de



**COSSMA: What are the challenges concerning aerosols and the issue of sustainability?**

**Leopold Werdich, President of Aerobal and Managing Director of Tubex:** To make cans more sustainable, one option is to make them lighter. Cans made of alloys are in general lighter than cans manufactured of pure aluminium. This is due to the fact, that the wall thickness can be reduced. However, the handling of cans containing alloys is more demanding. The entire manufacturing process, special handling and packing has to be adapted to lightweight cans. A new packing system has been developed for cans made of alloys. To ensure the continuous high quality of the cans, the production lines need an additional control system at the packaging station (end of the line). Apart from this, developing new and more sustainable lacquering systems is a very complex task as the lacquer must pass stability testing and the application has to meet industrial standards.

**What have been your company's recent developments contributing to the sustainability of aerosols?**

We offer an aerosol can, **Purity** which is manufactured without any use of lacquer or ink, neither inside nor outside. The production process of this can has been modified in such a way that no curing is needed. This means saving energy by completely omitting the curing process. This reduces CO<sub>2</sub> emissions considerably.

Together with our supplier, we also developed completely new alloys for aluminium aerosol cans. The advantage of the new alloy is that this material opens up a higher potential in material reduction – decreased wall thickness of the can – compared to a standard alloy which is used for the production of an aerosol can. For an aerosol can this means sustainability through weight reduction.

Sustainability at **Tubex** also means continuously working on trendsetting manufacturing processes such as internal powder coating, water-based lacquers and water treatment to avoid sewage. We ship our trimmings to our slug supplier. The trimmings and i.e. the punch scrap are recycled or melted on the spot at the slug manufacturer and used to produce pure aluminium slugs resulting in using approximately 40% pre-consumer recycling material in a slug.

**What options are there to make the decoration of aerosols more sustainable?**

The current development focuses on energy efficient curing systems and ecological inks and lacquers. Developing new inks for decoration is a



complex task. It will take quite some time and require a large number of trials before new sustainable and ecological inks are in use industrially.

**What future potential is there for an increased sustainability of aerosol cans?**

There will be further developments in new manufacturing processes resulting in using less and less material for future aerosol cans. Also, the development of alloys is just at the beginning – this area will be further improved. Further gains in sustainability can be made only with the help of the consumer. An aluminium aerosol can is, in fact, already a sustainable packaging. Aluminium can be recycled indefinitely and therefore the aim has to be to increase the recycling rate so that no aluminium is lost. 75% aluminium ever produced is still in use and is not available for recycling\*.

\*source: Germany-based aluminium association GDA



# FOCUS ON NATURAL BEAUTY

**Events** | What were major take-home messages from the 11<sup>th</sup> Natural & Organic Cosmetics Conference 2018 in Berlin? Find out about the prospects of a market segment subjected to constant change.

**M**ore and more customers favour organic cosmetics, and customer reach has been increasing for years. According to industry expert Elfriede Dambacher from **Naturkosmetik Konzepte**, the global market for natural cosmetics has a 10 % share and sales of between 10 and 12.5 million US-\$. Various market research companies are forecasting continuous growth for the next six years. This means that by 2025, the current volume is expected to double. But this positive development also poses some challenges for the industry: With the market becoming more

diverse, it is less predictable. In addition, digitalisation is rapidly changing the world. As a consequence, traditional distribution and marketing concepts no longer follow the same principles.

The constantly changing lifestyle of consumers makes them more demanding, and from a production point of view, obtaining controlled organically grown ingredients becomes more and more challenging. Due to the popularity of natural cosmetics, margins are getting lower and lower; however the industry still endeavours to act in an authentic, ethical and sustainable manner.

## A closer look at current trends

Tailored to this year's conference motto **Humanity and brand management in the era of digitalization**, Charlotte Libby, Beauty & Personal Care Analyst from **Mintel**, showcased future global trends for organic cosmetics, such as innovative bio-technologies, customised cosmetics, mood beauty and intelligent refill systems. She considers ensuring sustainability to be the biggest challenge for the organic cosmetics industry of tomorrow. The keynote speaker Nicole Brandes, Management Coach, Author and Partner of the **Zukunftsinstitut** (Future Institute) maintained

photos: Miriam Gückel/Naturkosmetik Verlag Lüdge, Kiselev Andrey Valerevich (lead photo), Shutterstock.com



that “we will achieve more change in the next 20 years than we have in the last 300 years. For this, we need people that convey visions, provide a purpose and are able to create relations. Digital is the base, emotional is the key.”

#### Newcomers and Brazil

Four newcomers in organic cosmetics were presented: **Baims**, **Derma ID**, **Plaine** as well as **Bitop** as a supplier of certified natural ingredients and **Ursatec** as a supplier of dispensing systems for preservative-free products. They shared their innovative approaches – and the hurdles a new brand has to master.

Moritz Aebersold from **Contura Consulting** characterised the Brazilian market. According to **Kline**, with about 7.75 bn US\$, Brazil accounted in 2017 for about 15% of the total NOC (natural and organic cosmetics) market worldwide. The Brazil-

ian market has a huge potential, particularly for locally produced brands. Even though the organic market is still very niche, it is booming. The goal of consultant Hans Reitz was a completely plastic-free industry. As his emotional plea was met

with positive feedback, the conference organiser initiated a joint pilot project to get under way before the end of the year. □

The 11<sup>th</sup> Natural & Organic Cosmetics Conference, held in Berlin on September 25-26, was hosted by the natural cosmetics publisher Naturkosmetik Verlag in cooperation with Vivanness and was attended by about 240 decision makers.



240 attendees participated at the 11<sup>th</sup> Natural & Organic Cosmetics Conference in Berlin

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# PACKAGING SUPPLIERS

**Market survey** | Packaging is paramount when it comes to dressing up your latest product concept. But which packaging suppliers offer which packaging items? And which services go with their products? Our fully updated market survey of packaging suppliers will tell you. The clearly structured tabular layout lets you see at a glance which suppliers offer which types of products.

Additional information can be found on the Internet – see Internet panel

More information at

[www.cossma.com](http://www.cossma.com), web code 100120

Your access codes for November:

User name: **cossma11**

Password: **derma**

<input type="radio"/> no <input checked="" type="radio"/> yes <b>company, e-mail, website</b>	aerosol packaging packaging for colour cosmetics bottles, jars, tins, tubes boxes (cardboard, other materials, all shapes) closures, dispenser pumps, spray pumps, airless syst. machines (packaging, filling, labelling, software) raw materials f. packaging services (design, contract services, consulting) labels, sleeves, coding other most important product/service										
Adelphi Healthcare Packaging, nicola.jones@adelphi.uk.com, www.adelphi.uk.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	packaging machinery
ADF&PCD organised by Easyfairs Oriex, adf-pcd@easyfairs.com, www.adfpcdparis.com	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	show & congress expert meeting for aerosol, dispensing & beauty packaging
AJK Etiketten u. Barcodesysteme GmbH, info@ajk-barcode.de, www.ajk-barcode.de	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	labels, barcode systems
Albéa Group, www.albea-group.com	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	cosmetic packaging, packaging for colour cosmetics, tubes
Allen Coding GmbH, w.schicks@allencoding.com, www.allencoding.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	coding machines
Awantys GmbH, info@awantys.com, www.awantys.com	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	innovative packaging solutions, packaging development
AZO Liquids GmbH, azo-liquids@azo.com, www.azo-liquids.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	homogenisation
Bakic Packaging, info@bakic.com, www.bakic.com	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	contract development, contract manufacturing, full service, private label
Ballerstaedt & Co. OHG, sales@ballerstaedt.de, www.ballerstaedt.de	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	aluminium seal closures, sealing machines
bb med. product GmbH, info@bb-kalkar.de, www.bb-kalkar.de	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	contract development, contract manufacturing, full service, private label
Biesterfeld Plastics AG, plastic@biesterfeld.com, www.biesterfeld.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
bix pack Verpackungsdienstleistungen GmbH, info@bix-pack.de, www.bix-pack.de	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	co-packing
bomo trendline, info@bomo-trendline.de, www.bomo-trendline.de	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	packaging lines, full-service
Bosch Packaging Technology, packaging@bosch.com, www.boschpackaging.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	packaging technology
CBV Christoph Binder Verpackungsmaschinen, christoph.binder.pack@gmx.de, www.cbv-pack.de	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	packaging machinery
Colordruck Baiersbronn, info@colordruck.net, www.colordruck.net	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	digital packaging, personalised packaging, folding boxes
Coolike Regnery GmbH, info@coolike.de, www.coolike.de	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Corpack, info@corpack.de, www.corpack.de	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	packaging solutions

○ no ● yes company, e-mail, website											
	aerosol packaging	packaging for colour cosmetics	bottles, jars, tipples, tubes	boxes (cardboard, other materials, all shapes)	closures	machines (packaging, filling, labelling)	raw materials f. packaging	services (design, contract services, consulting)	labels, sleeves, coding	other	most important product/service
Cosmogen, cosmogen@cosmogen.fr, www.cosmogen.fr	○	●	○	○	●	○	○	○	○	○	innovative packaging & accessories for cosmetics
Coster Technologie Speciali S.p.A., sales@coster.com, www.coster.com	○	○	○	○	○	●	○	○	○	○	aerosol valves
Dave Technical Services, contact@davetechnical.com, www.davetechnical.com	○	○	○	○	○	●	○	○	○	○	blow & injection moulding machines
DERSCHLAG GmbH & Co.KG, info@derschlag.com, www.derschlag.com	○	○	○	○	○	○	○	●	○	○	aluminium seal closures
DS Smith Packaging Deutschland, contact.sales@dsmith.eu, www.dssmithpackaging.fr	○	○	○	○	○	●	○	○	○	○	promotional displays, smart SRP solutions
Eckart GmbH, www.eckart.net	○	○	○	○	○	○	●	○	○	○	metallic effect pigments
ELS European Labelling System GmbH, s.balzer@els-gmbh.de, www.els-gmbh.de	○	○	○	○	○	●	○	○	○	○	progressive branding, labelling and coding
Emil Kiessling GmbH, info@emil-kiessling.de, www.emil-kiessling.de	○	○	○	○	○	○	○	●	○	○	contract development, contract manufacturing, full service
EquipNet, sales@equipnet.com, www.equipnet.com	○	○	○	○	○	●	○	○	○	○	marketplace
ESPERA-Werke GmbH, info@espera.de, www.espera.de	○	○	○	○	○	●	○	○	○	○	labelling machines
Etiket Schiller GmbH, info@etiket-schiller.de, www.etiket-schiller.de	○	○	○	○	○	○	○	○	○	○	labels
etol Gesundheitspflege- und Pharmaprodukte GmbH, info@etol-oberkirch.de, www.etol.de	○	○	○	○	○	○	○	●	○	○	contract services, private label
ETS BUGNON Etablissements Bugnon, info@ets-bugnon.fr, www.ets-bugnon.fr	○	●	●	○	○	○	○	○	○	○	extruded tubes, multilayer tubes, organic tubes
Faber-Castell Cosmetics, cosmetics@fc-cosmetics.com, www.fc-cosmetics.com	○	○	○	○	○	○	○	○	●	○	cosmetic pencils, contract manufacturing
Fachpack Trade Show organised by NürnbergMesse GmbH, www.fachpack.de	○	●	●	○	○	○	○	○	○	●	FachPack packaging trade show
Flacopac GmbH & Co. KG, info@flacopac.com, www.flacopac.com	○	●	●	○	●	○	○	●	○	●	innovative sampling solutions, nail polish packaging
Folienwerk Wolfen GmbH, info@folienwerk-wolfen.de, www.folienwerk-wolfen.de	○	●	●	○	○	○	○	○	○	○	packaging films, print films, lamination films
GEKA GmbH, info@geka-world.com, www.geka-world.com	○	●	●	○	○	○	○	●	○	○	mascara
Gernep GmbH, info@gernep.de, www.gernep.de	○	○	○	○	○	●	○	○	○	○	Soluta
Gerschon GmbH, info@gerschon.de, www.gerschon.de	●	○	●	○	●	○	○	●	○	○	bottles, jars, closures, suitable accessories, printing
GRAFE Advanced Polymers GmbH, marketing@grafe.com, www.grafe.com	○	○	○	○	○	●	●	○	○	○	colour preview/forecast, masterbatches.
groninger & co. gmbh, office@groninger.de, www.groninger.de	○	●	●	○	●	○	○	○	●	○	filling, closing and handling machines
Hastamat Verpackungstechnik GmbH, j.jung@hastamat.com, www.hastamat.com	○	○	○	○	○	●	○	○	○	○	packaging machinery, check weighers
Hebold Systems GmbH, sales@hebold.com, www.hebold.com	○	○	○	○	○	○	●	●	○	●	mixing & homogenising
Homburg Verpackungstechnik, info@homburg-verpackungstechnik.de, www.homburg-verpackungstechnik.de	○	○	○	○	○	●	○	○	○	○	tube sealing, tube filling machines
Hopeck Packaging Shanghai Hopeck Int. Trade, cosmetic@hopeck.com, www.hopeck.com	○	●	●	○	●	○	○	○	○	○	packaging f. colour cosmetics
Hugo Beck Maschinenbau GmbH + Co. KG, info@hugoback.de, www.hugoback.de	○	○	○	○	○	●	○	○	○	○	packaging machines
IGB Srl, info@igbressan.it, www.igbressan.it	○	○	●	○	○	○	○	●	○	○	tamper evident packaging solutions
Interton Sp.z.o.o., j.prazanowska@intertonpackaging.com, www.intertonpackaging.com	○	●	●	○	●	○	○	○	○	○	compacts, mascara, applicators, make-up packaging

## MARKET SURVEY

<input type="radio"/> no <input checked="" type="radio"/> yes company, e-mail, website	aerosol packaging packaging for colour cosmetics bottles, jars, tins, tubes boxes (cardboard, other materials, all shapes) closures, dispenser pumps, spray pumps, airless syst. machines (packaging, filling, labelling, software) raw materials (packaging, filling, labelling, software) services (design, contract services, consulting) labels, sleeves, coding other most important product/service									
intracosmed AG, info@intracosmed.ch, www.intracosmed.ch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	private label f. facial care, body care, hair care
ISRA Vision AG, info@isravision.com, www.isravision.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	inspection machines for packaging
Karl Finke GmbH & Co. KG, info@finke-colors.de, www.finke-colors.de	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	colour for plastic packaging, plastic colours, fibaplast masterbatches,
KARL KNAUER KG, info@karlknauer.de, www.karlknauer.de	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	folding boxes, blister cards, displays, machines
KHK GmbH Lipcare.de, sales@lipcare.de, www.khkgmbh.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	private label lip balm
Klar + Partner AG, info@klar-partner.de, www.klar-partner.de	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	software solutions for cosmetic formulations
L.A. Schmitt GmbH, info@schmitt-cosmetics.com, www.schmitt-cosmetics.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	private label
LAV Management & Service GmbH, emlyn@emlyn.de, www.emlyn.de	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	production of natural cosmetics
Linea Glam, info@lineaglam.com, www.lineaglam.com	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	airtight packaging f. colour cosmetics, compacts, lipsticks, jars, perfume atomisers
Linx Printing Technologies Ltd, sales@linxglobal.com, www.linxglobal.com/en-gb	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	coding solutions
Lohn-Pack K.A. Wolf GmbH & Co.KG, info@lohnpack.info, www.lohnpack.info	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	filling, packaging & assembling
Lutz GmbH & Co. KG, sales@lutz-packaging.de, www.lutz-packaging.de	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	ampoules
Marzek Etiketten GmbH, etiketten@marzek.at, www.marzek.at	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	labels
MBC Aerosol, sales@mbc-aerosol.com, www.mbc-aerosol.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	aerosol and/or bag-on-valve machines
Meding GmbH, info@meding.com, www.meding.com	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	cosmetic spatulas, cream pots, nail colour sample testers
Metsä Board Corporation, metsaboard.communications@metsagroup.com, www.metsaboard.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	material for packaging: fresh fibre premium paperboard and linerboard
Milliken Europe BVBA, eurochem@milliken.com, www.milliken.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Hyperform® polymer additives, Millad® clarifying agents, colorants
Mimaki Europe BV, info@mimakieurope.com, www.mimakieurope.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	high performance printing solutions
Mitsubishi Polyester Film GmbH, marketing@m-petfilm.de, www.m-petfilm.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	oPET films
Neopac The Tube (Hoffmann Neopac AG), info@neopac.com, www.neopac.com	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	cosmetic tubes, Polyfoil® PE coex tubes
Omron Adept Technology GmbH, info.de@adept.com, www.adept.de	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	packaging robots
Optima packaging group GmbH, info@optima-packaging.com, www.optima-packaging.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	filling and packaging machines
Packservice PS Karlsruhe GmbH, info@packservice.com, www.packservice.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	co-packing
Pamasol Willi Mäder AG, info@pamasol.com, www.pamasol.com	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	aerosol filling lines
Paul Leibinger GmbH & Co. KG, info@leibinger-group.com, www.leibinger-group.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	coding solutions
pester pac automation GmbH, info@pester.com, www.pester.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	end-of-line packaging machinery
PKB Packaging Machinery, th.werner@pkbmachines.com, www.pkbmachines.com	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	cosmetics, toiletries & fragrance filling lines
Polpak Packaging, biuro@polpak.pl, www.packaging.polpak.pl	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	plastic packaging, cosmetic containers, closures
Polpak Sp.z.o.o., polpak@polpak.pl, www.polpak.pl	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	packaging machines
PROCME GmbH, info@procme-gmbh.de, www.procme-gmbh.de	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	packaging technology
Prospectivo Cosmetic, info@prospectivo.de, www.prospectivo.de	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	tubes



○ no ● yes company, e-mail, website												
		aerosol packaging	packaging for colour cosmetics	bottles, jars, trolleys, tubes	boxes (cardboard, other materials, all shapes)	closures, dispenser pumps, spray pumps, airless syst.	machines (packaging, filling, labelling, software)	raw materials f. packaging	services (design, contract services, consulting)	labels, sleeves, coding	other	most important product/service
Rationator-Maschinenbau GmbH, sales@rationator.de, www.rationator.de		●	○	○	○	○	●	○	○	○	○	flexible bottle handling, filling and capping machines
RIWA Kunststoff Display GmbH, info@riwa-display.de, www.riwa-display.de		○	○	○	○	○	●	○	○	○	○	point of sale displays
Rosa Heinz GmbH, info@rosa-heinz.de, www.rosa-heinz.de		○	○	○	○	○	○	○	●	○	●	glass & plastic packaging
roTeg AG Roboter Technologie, kontakt@roteg.de, www.roteg.de		○	○	○	○	○	●	○	○	○	○	robot technology
RPC Promens, www.rpc-bramlage.com		○	●	●	○	●	○	○	●	○	○	airless dispensers, bottles, jars, closures
RUSI Cosmetic GmbH & Co KG, info@rusi.de, www.rusi.de		○	○	●	○	●	○	○	○	○	○	mascara
Rychiger AG, sales@rychiger.com, www.rychiger.com		○	○	○	○	○	●	○	○	○	○	filling & sealing solutions
Saueressig GmbH & Co. KG Matthews Marking Systems, www.sgkinc.com		○	○	○	○	○	●	○	○	○	○	gravure technology innovation
Schubert Packaging Systems GmbH, info@schubert-packaging-systems.com, www.schubert-packaging-systems.com		○	○	○	○	○	●	○	○	○	○	robotic filling and packaging machines
Schwan-Stabilo Cosmetics GmbH & Co. KG, contact@schwancosmetics.com, www.schwancosmetics.com		○	●	○	○	○	○	○	●	○	●	cosmetic pencils, customising, contract services, mascaras
Seaman Paper Europe GmbH, info@werola.de, www.werola.de		○	●	●	○	○	○	○	○	○	○	tissue paper
Serac Groupe Supply and Support, serac@serac.fr, www.serac-group.com		○	○	○	○	○	●	○	○	○	○	manufacturing machines f. thermoformed bottles
Seufert Gesellschaft für transparente Verpackungen mbH, info@seufert.com, www.seufert.com		○	○	○	●	○	○	○	○	○	○	transparent packaging solutions
Stoelzle Glass Group, office@stoelzle.com, www.stoelzle.com		○	○	○	○	○	○	●	○	○	●	glass packaging solutions, design support
Symex Schröder & Boos Misch. U. Anlagentechnik GmbH & Co. KG, info@symex.de, www.symex.de		○	○	○	○	○	●	○	○	○	○	vacuum- , mixing and homogenising systems
SystemKosmetik Produktionsges., info@systemkosmetik.de, www.systemkosmetik.de		○	○	○	○	○	○	○	●	○	○	private label
Taiki Cosmetics Europe SA, taiki@taiki-europe.com, www.taikicosmetics.com		○	○	●	○	○	○	○	●	○	○	accessories
Terco Inc., sales@terco.com, www.terco.com		○	○	○	○	○	●	○	○	○	○	aerosol filling, liquid filling, puck handling
The Box BV, veer@theboxnl.com, www.theboxnl.com		○	●	●	○	○	○	○	○	○	○	tin boxes
Toyo & Deutsche Aerosol GmbH, dirk.baeckmann@td-aerosol.com, www.td-aerosol.com		○	●	●	●	○	○	○	○	○	○	The Dual packaging based on bag-on-valve technology
Valmatic s.r.l., commerciale@valmaticsrl.com, www.valmaticsrl.com		○	○	○	○	○	●	○	○	○	○	unidose systems, filling machines
Velox GmbH, ofer.nir@velox-digital.com, www.velox-digital.com		●	○	○	○	○	○	○	○	○	○	Volox-IDS-250
Virospack Export, sales@virospack.com, www.virospack.com		○	●	●	○	●	○	○	○	○	●	droppers
ViscoTec Pumpen- und Dosiertechnik GmbH, melanie.hintereder@viscotec.de, www.viscotec.de		○	○	○	○	○	●	○	○	○	○	filling machines, pumps
Wareg Verpackungs-GmbH, info@wareg-gmbh.de, www.wareg-gmbh.de		●	○	●	○	○	●	○	○	○	●	tubes, bottles, mini-roll-ons, dispenser systems, applicators
Weener Plastics, i.vermeer@wppg.com, www.wppg.com		○	●	●	○	●	○	○	○	○	●	foil printing, folding boxes, bottling
Wilhelm Werner GmbH, info@werner-gmbh.com, www.werner-gmbh.com		○	○	○	○	○	●	○	○	○	○	process water
Zahoransky AG , info@zahoransky.de, www.zahoransky.com		○	○	○	○	○	●	○	○	○	○	packaging machines
Zanders GmbH, info@zanders.com, www.zanders.com		○	○	○	○	○	○	●	○	○	○	high quality speciality papers and boards
Zelinka GmbH consumer packaging, info@zelinkagmbh.com, www.zelinkagmbh.com		○	○	○	●	○	○	●	●	○	●	tubes, bottles, mini-roll-ons, dispenser systems, applicators
Zellaerosol GmbH, info@zellaerosol.de, www.zellaerosol.de		●	○	○	○	○	○	○	●	○	○	production and filling of aerosols and liquids

# HIGHLIGHTS 2018

**Packaging** | Be inspired by 2018's key developments in packaging: Corpack's Sughera cork-blend material, Neopac's 95% bio-based Picea wood tube and the Polyfoil dropper tubes, Schubert's preconfigured case packer and Virospack's new dropper with a subtly curved bulb and cap.

photo: Santiago Cornejo, Shutterstock.com



Be creative with Sughera: components made of Sughera add a natural touch to cosmetic packaging.

photo: Corpack



## NATURAL LOOK AND FEEL

Corpack introduced Sughera, a new cork-blend material, in effort to reduce the plastic content in components

**S**ughera is a revolutionary material consisting of 70% natural cork mixed with 30% synthetic rubber-blend. For the first time a micro-agglomerated natural cork is injection molded and formed without using glue. The cork material, according to Ecocert/Cosmos guidelines, provides a renewable source of raw materials and means, the recycled and granulated cork bits from Portugal take on a new lease on life in the packaging.

Whether as an over cap for jars, bottles, tubes or as an accessory for cosmetic packaging, Sughera can be precision molded in countless shapes and in a selected variety of colors. It is customizable by embossing or debossing of logo or texture, silk-screen or laser-printing is possible. The natural look and the velvety, soft-touch

surface enlightens the senses of the customer.

Sughera, as a natural element in cosmetic packaging, tells a story of the product and transmits this message to the consumer. Components made of Sughera are perfect for natural formulations or organic brands, making a connection to nature.

The new cooperation with the manufacturer Livingcap enables Corpack to be the first company to introduce Sughera into the cosmetic industry thru new packaging concepts.

### **Corpack can transform your vision into reality**

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comprehensive service, offering one-stop shopping for any brand seeking to design & develop a new line or re-launching an existing one. We offer custom- as well as stock-solutions for all your packaging needs.



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# COSMETICS RESPONSIBLY PACKAGED

Supporting cosmetics brands in sustainability and safety initiatives

**N**eopac, with production sites in Switzerland, Hungary, India and the US has recently launched its sustainable tube PICEA™. It consists of more than 95 % biobased carbon content, pulp wood and bio-PE, in the tube body and shoulder. The source of the spruce wood is Germany.

This product along with the rest of Neopac's tubes portfolio are focused on helping their customers to find the perfect protective solution for their formulas, also in terms of sustainability that comply with the quality requirements of the cosmetics industry.

Specifications: PICEA™ wood tube range is available for contents of 10–300 ml. It meets the highest standards in terms of quality of the material: It is recyclable in the plastic stream (category 2) and food grade according to EU regulation No. 10/2011. The tube

is certified by ECOCERT and COSMOS a specialized organization for natural cosmetics, ecoproducts and fair trade.

Specifications: PICEA™ wood tube range is available for contents of 10–300 ml. It meets the highest standards in terms of quality of the material: It is recyclable in the plastic stream (category 2) and food grade according to EU regulation No. 10/2011. The tube is certified by ECOCERT and COSMOS a specialized organization for natural cosmetics, ecoproducts and fair trade. For serums, nutricosmetics or liquid cosmeceuticals, Neopac has developed the unbreakable dropper tubes which control the contents and ensure precise application. Regardless of the pressure on the tube, the droplet size always remains the same. Thanks to a variety of nozzles, serums and liquids reach the desired location – hygienically and cleanly. The Polyfoil® barrier laminate protects the contents against

oxygen, light and water vapour and ensures that all active ingredients stay in the product. Dropper tubes offer endless decoration possibilities with a variety of cap styles and printing options such as offset, silkscreen or hot-foil stamping.

Neopac is now partnering a launch of vitamin drops for toddlers. Maybe your project is next?

**NEOPAC**  
THE TUBE

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The case packer, called lightline Carton-packer, erects RSC folding boxes, loads and closes them. With a performance of up to 25 two-piece cartons/minute, it can process multiple different product formats.

photo: Schubert-Cosmetics



# ONE MODULE – ALL FUNCTIONS

Preconfigured case packer to meet individual requirements

**T**he Cartonpacker consists of a single module and handles carton packaging in the smallest of spaces – with all the expected high quality and efficiency of a TLM system.

Schubert now provides an attractive and affordable solution with a fast delivery time for packaging tasks that require less flexibility, i.e. that consist of only a few product and format variants. Schubert's new lightline machine range includes packaging machines for standard packaging tasks with preconfigured system components.

The very compact case packer is available in four variants for different types of cartons – trays, trays with lids, wrap-around cartons or RSC cartons. Depending on the type of carton, the machine is equipped with a suitable closing tool and laid out for

one product at a time, i.e. for bags, boxes, bottles or cans. The machine design distinguishes itself by reduction down to essential functions only, which results in lower energy consumption and therefore reduced costs. With the lightline range, Schubert is targeting customers with packaging tasks that require less flexibility but who also attach great importance to high-quality machine engineering.

In addition to attractive investment costs, customers benefit from very short delivery times and fast commissioning. This enables customers to respond quickly to market demands.

Proven functional principles and intelligent machine control ensure reliable operation with high system availability. Especially with standardised packaging tasks, TLM technology with the Schubert lightline

machine range offers a cost-effective, long-term solution to significantly increase production efficiency.



#### Schubert-Cosmetics

a Unit of Schubert Packaging Systems GmbH

Werner-von-Siemens-Str. 12

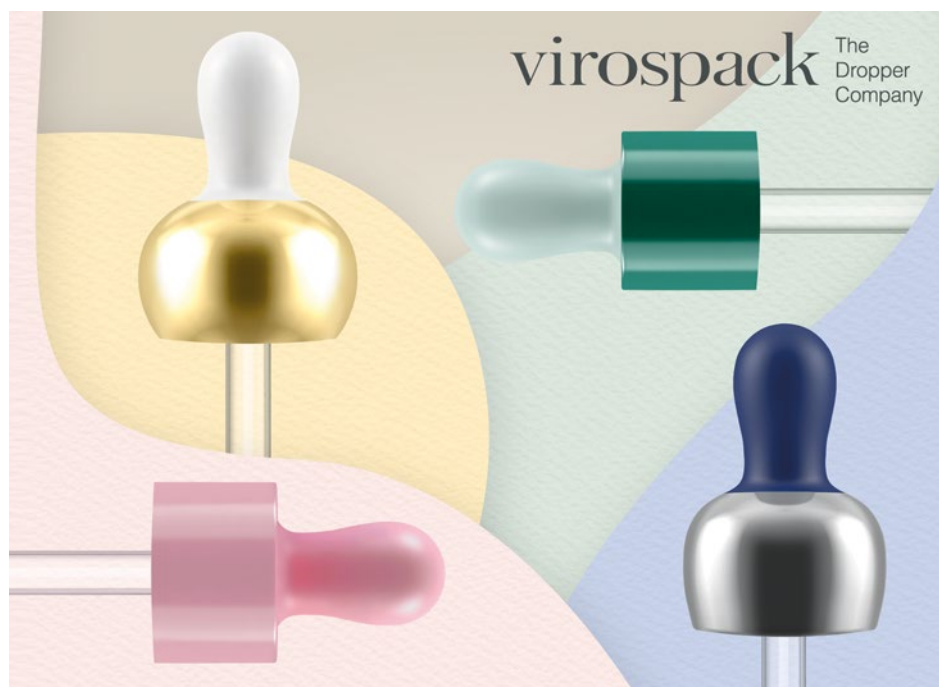
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[www.schubert-packaging-systems.com](http://www.schubert-packaging-systems.com)

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New dropper with original curved design by Virospace. A new bulb with rounded lines and two new curved designs of caps that combine perfectly with the bulb. As result, two new curved dropper models of original and novel shape.

photo: Virospace

# SEDUCTION WITH CURVES

Enhancing design and sensuality thanks to the curved lines of the dropper.

**V**irospace presents a new dropper with an original shapely design. It's a new proposal in packaging, internally developed and manufactured in Virospace facilities, with delicate rounded lines. It's a new design with which the company has given the classic dropper a renewed image, more eye-catching, more sensual. Thanks to its innovative design of a subtle curved shape of both the bulb and the cap, the cosmetic dropper benefits from a seductive look.

**Novelty.** – New dropper differentiated through its design.

**Adaptability.** – New dropper with curves developed to fit the standard 20/410 bottle neck.

**Wide offer.** – Virospace presents a

new addition to its standard range of bulbs, with a curved appearance that distinguishes it from others in the line. At the same time, the company presents two different standard curved caps that combine perfectly with the new bulb. Meaning that, together, brands are able to choose between two new standard curved droppers. The curved bulb can also be combined with other existing caps in the Virospace catalogue.

**Customization.** – With a wide range of finishes available such as painting, metal shells, and metallization, customers benefit from a dropper dispenser pack completely personalized for their brand.

**virospace** The Dropper Company

**VIROSPACE sl**

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# SETTING TRENDS FOR DROPPERS

**Packaging** | Droppers used to be just a side issue, but now they are taking the world by storm. Rosa Porras from Virospack explains why.



**AUTHOR:**

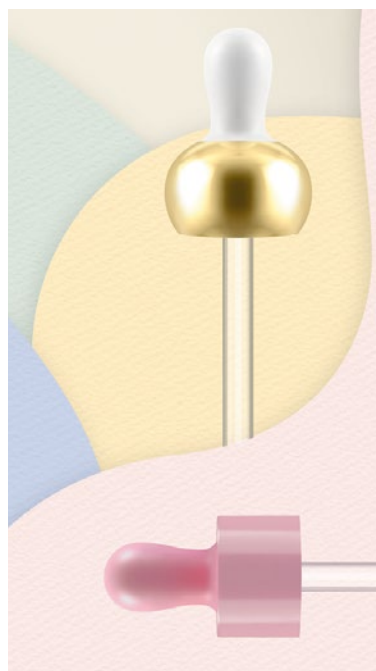
Rosa Porras, Marketing & Communication  
Manager, Virospack, Barcelona, Spain  
[www.virospack.com](http://www.virospack.com)

**D**roppers are the best performing packaging for low viscosity formulas due to their precise dosage and convenience. Serums, highly concentrated formulas, have been presented in droppers for a long time due to the accurate in-take and application. Since droppers are also suitable for

fluid formulas and oils, the demand of droppers has increased considerably. Oils are currently booming in the market, but products for hair care and nails are also increasingly important, as are fluid make-ups, blushes and illuminating products with glitter. Droppers are suitable for all of these product segments.

photos: Virospack

A curved bulb and cap design for greater visibility



A black dropper for Essence's shimmer drops



Too Faced's elixir was inspired by the unicorn and the rainbow

Smashbox's drops with a metalised gold pink push button dropper



**Virospack's** strong focus in R&D and innovation leads to the launch of new dropper concepts with improved designs, functionalities and technology every year.

### Targeting the glitter trend

**Too Faced** is a make-up brand focusing on the fun aspect of colour cosmetics. Its craziest illuminating product is a formulation with glitter to be applied drop by drop. The brilliant elixir is designed for a magical finish applied drop by drop in several layers. **Virospack** has manufactured its entire packaging, a dropper dispenser pack with an injected bulb in custom baby blue, gold metal shell cap and glass pipette, and the moulded 30 ml glass bottle, decorated according to the brief of the brand in which the unicorn and the rainbow were the source of inspiration.

**Smashbox's** limited **Petal Metal Collection** was co-created with **Instagram** make-up artist **Vlada Haggerty**. **Drops of heaven** in a full pack by **Virospack** comes in a 10 ml trans-

parent tubular glass bottle which shows the shimmering formula. Its push button dropper is painted in a customised metallic goldish pink. This liquid shimmer potion acts as a weightless sparkle topper for lips and a shimmering liquid highlighter for the face.

**Essence's** trend edition **glitter in the air** provides radiance with colours such as pink, various metallic shades, green nuances and plum. The shimmer drops are featured in a 5 ml tubular glass bottle with black screen printing and a black cosmetic dropper.

### Innovating in design and functionality

A new reference of a bulb with an original curvature in the centre adds sensuality to the packaging with its design and texturised finish featuring an alluring novelty to beauty market. The new bulb design provides greater visibility due to its stylishness as well as enhanced ergonomics and functionality. Its taller bulb design has

#### DEMAND

of droppers has **increased** considerably

Virospack exports over 95% of its products

Virospack produces more than **70 million droppers** and 15 million bottles

a special curvature in the centre which indicates the best actuation spot for the in-take of the product. This curvy design has been highlighted with a textured, non-slip fingerprint-effect decoration. This finish with its micro relief effect was achieved by 3D technology that enables decoration at different depths. On top of differentiation, one of the principal benefits of this decoration is that it has an anti-slip effect which makes it particularly suitable for oily formulations.

With its 0.8 ml dosage the new cosmetic dropper has a greater formula in-take than the standard. It is ideal for products that require a larger dosage or a bigger treatment area, such as hair treatments, body care or treatments for men.

### Droppers – a convenient choice

The **Repair Night Serum** from **Patyka**, a Parisian house of organic cosmetics with more than

90 years of experience, contains 16 organic vegetable oils. The 15 ml moulded glass bottle supplied and decorated by **Virospack** has a white push button dropper for precise dosage and application, precision. The frosted glass bottle is decorated with black screen-printing and hot-stamping. **Galenic's Confort Suprême Revitalising duo serum** is a bi-phase liquid serum treatment. When the bottle is shaken, a homogenous dispersion is created. The 30ml moulded glass bottle is highly transparent to showcase the bi-phase formula and features an **Autofill Dropper** with black injected cap and push button with black plastic finish. This high-tech autofill push button dropper, the first on the market with bulb developed by Virospack, ensures serum intake with each click as well as an airtight closure. For this packaging the clear standard bottle, decorated with black screen printing and gold hot stamping, black and white screen-printing and the black plastic autofill dropper were totally customised to fit into the **Galenic Confort Suprême** range. **African Botanics**, a natural cosmetics brand with ingredients from Africa, takes advantage of the skin-replenishing properties of Marula oil with its **Pure Marula Oil**. The 30 ml dropper bottle is suitable for delicate formulations such as this oil. The thick glass bottom of the bottle creates

## "AT VIROSPACK, WE INNOVATE, TOO, FOR A SUSTAINABLE FUTURE"

Rosa Porras, Marketing & Communication Manager, Virospack

### ILLUMINATING

products with **glitter** have become very popular

**Oils** are currently booming in the market

The latest design features a curved **cap and bulb**

weight and evokes a high-quality look. The last drop feature allows a restitution of 99,7% which is bigger than usual in cosmetics. Due to the standard wiper the pipette stays clean with formulas such as oils.

### Service- and innovation-oriented commitment

**Virospack's** wide range of standard droppers can easily be customised, however, client moulding is also an option for differentiation. Committed to service and innovation, the company provides bespoke solutions for brands in response to customer and market demand. For each new order a responsible technician is assigned to supervise the entire process. The numerous projects with customised or standard droppers that were carried out for renowned international brands were all developed internally in close collaboration with the brand. The full-service package ranges from the design with rendering and 3D to the final prototype. The company's expertise guarantees the precise functionality of the dropper and the compatibility of the formula with all the components

and their decoration. Strict quality controls, approved by the most demanding brands, and state-of-the-art automatic production including decoration and assembly lines are to deliver optimum packaging solutions.

In response to the current needs of the market, the company has increased its eco-friendly commitment, improved its cost-efficiency and shortened its responsiveness and lead times. An improved life cycle analysis requires a good management of the supply chain and investment in R&D to acquire more sustainable material processes.

The company's services include technical consultancy for the best choice of materials, manufacturing techniques and components, design and prototyping with specialised engineers in charge of customised solutions and a testing laboratory and quality assurance with compliance of the military standard AQL and material data sheets for all components. The company's international supply chain ensures the delivery of each order in accordance with each country's export regulations. □



### VIROSPACK AT A GLANCE

**Virospack** specialises in the development, manufacture and decoration of **droppers** for skin care, hair, nails and make-up. For more than 60 years, the company has been manufacturing droppers for global cosmetic brands. **Over 95%** of the company's products **are exported** to over 20 countries. For 2018, the company's turnover with a production of more than 70 million droppers, 15 million bottles and 1,000 shipments per year, is estimated to amount to 44.5 million Euros in gross sales, which equals a **34% growth over 2017**.

At their facilities in Barcelona, Virospack produces all components and controls all decoration techniques. **The company constantly invests** in new technologies, new finishing processes, new moulds and new ERP software as well as in new facilities and a new fleet of machinery – 45 million Euros in the past few years. This on-going expansion plan recently culminated the **inauguration** of the new and modern **production unit**.

[www.virospack.com](http://www.virospack.com)



# NEWS



## SUSTAINABLE CORK

**CORPACK** | **Corpack** has developed and produced the new lip balm case for the **Kneipp** brand, which offers a visual and soft touch experience thanks to the new material used in this sustainable packaging concept. The lower part of the lip stick was made from **Sughera**, a special material consisting of 70% natural cork and 30% synthetic rubber. The natural soft touch surface and look are characteristic of this new material, emphasizing a back-to-nature



The lower part features a soft touch surface made from Sughera

appeal. The cork material, according to Ecocert/Cosmos standards, provides a renewable source of raw materials and means the recycled and granulated cork bits from Portugal, take on a new "lease on life" in the packaging.

www.corpack.de,  
www.kneipp.com

## APPLICATOR WITH REMOVABLE BALL

**TNT GLOBAL MANUFACTURING** | TNT's **R2AD** is a refillable and removable cosmetic applicator. This patented massaging, removable and rotatable 360° metal ball applicator is combined with an airless



The ball can be covered with a plastic shell

refill. Its magnetic stainless steel ball provides unlimited movement, as well as a 300% increased contact zone compared to a conventional roll-on applicator. Cooled, it optimises the application for draining care. While warm, it promotes the opening of pores for better absorption.

www.tntgm.com

## NEW RANGE

**ACTI PACK** | **Acti Pack's Prelude** is a new range of PET bottles. From an elliptical basis, the new bottles are distinguished by their thin and flared shape ending with flat shoulders. Today available in 3 capacities, the bottles with their standard screw



Flat shoulders create an elegant aspect

neck can be used for screw and dispensing caps or pumps and sprays. They are easily customisable by transparent or opaque colouring.

www.actipack.fr

## Trend demonstrating gift

**CLARIANT** | **Clariant's Rhythm N'Blue** is a skin-soothing serum packaged in a colourful plastic roll-on offered as a gift at selected tradeshow. The item promotes the company's **ColorForward** trend analysis and highlights also the company's cosmetic ingredients.

**Merck** provided the special-effect pigment, **Biogei Cosmetics** produced the serum, **InduPlast** supplied the roll-on container and **D-Fusion** created the product label and a website highlighting the project.

www.clariant.com



Skin-soothing serum in a turquoise blue roll-on

## CARTONPACKER FOR SMALL SPACES

**SCHUBERT** | At this year's **All4pack** trade fair in Paris, Schubert presents its new lightline **Cartonpacker**. The case packer erects, fills and closes cartons, all within a very small space. The machine is available in four versions for different types of carton: trays, shelf-ready cartons, RSC cases and wrap-around cartons. The



The case packer erects, fills and closes cartons

**Cartonpacker** is also designed for a specific product, e.g. bags, boxes, bottles or cans.

www.schubert.group



Suitable for foundations, blushes or eyeshadows

## Make-up

**LINEA GLAM** | **Linea Glam** developed the **Mood Box** for the brand **Irisé Paris** brand. This very adaptable make-up palette can contain either foundations, blushes or eyeshadows.

www.lineaglam.com

## MASK PRODUCTION

**STRAND COSMETICS** | **Strand Cosmetics Europe**, **Ms Swiss Cosmetics**, and the French subsidiary of Japan's **Taiki Group** provide a full-service mask offer. The jointly developed range of modular and customisable solutions is



A joint full-service offer of masks

based on a selection of tried and tested fabrics and formulas. The packaging capacity for these masks will be between 10 and 12 million units per year.

www.strandcosmeticseurope.com

# PROVIDER OF SMART SOLUTIONS

**Interview** | What are the challenges in the development of sustainable ingredients and what solutions are there for new market needs? Find out from Xavier Susterac from BASF.

**COSSMA: You entered the cosmetics industry one year ago when you became Senior Vice President of BASF's European Personal Care business. What do you like about the sector?**

**Xavier Susterac, European Senior Vice President, BASF:** What I especially like about the cosmetics industry is that we are acting in a fast-moving consumer goods (FMCG) environment and are heavily influenced by dynamic changes. Every year, 150,000 new personal care products are launched in the shelf-space. To make all these launches successful requires a strong customer focus and, at the same time, we need to be able to anticipate the consumer trends and needs driving the market. So on the one hand, we need to think B2B and on the other hand we need to understand B2C, too. Right now, our business is in good shape and we are continuing to grow from a strong position as one of the globally leading suppliers for personal care. At the same time, it is important to safeguard our competitive edge in this fast-changing business environment. This is a very exciting challenge.

**What have been the company's major achievements and challenges recently?**

One of the biggest challenges we have faced in the last few years – and this will continue to accompany us – is our path towards sustainably certified palm kernel oil. We have already made great progress with this, especially during the last year. In 2018, we initiated a major shift in our portfolio and committed our-

selves to switching 330 palm-based products to 'Mass Balance' standard over the course of the year. It is the first time that a portfolio of this size and complexity has been converted globally and it marks an important milestone for the cosmetics industry in its journey towards sustainable palm. We will continue to push this topic because we are convinced that it is time for change.

**Your company was among the first companies to launch RSPO-certified ingredients. Where are you now with this?**

Our company has a remarkable footprint in the palm industry. We are aware of our responsibility and share the concerns about the impact of palm cultivation on tropical forests, valuable peatland, wildlife and local communities. That's why, in 2017, we put a great deal of effort into ensuring supply chain transparency and traceability for our palm kernel oil. We were able to trace almost 80 percent of our overall oil palm exposure – totalling more than half a million metric tonnes – back to the mill level. The certified sustainable oil is 100 percent traceable and originates from 204 oil mills in Indonesia and Malaysia. Additionally, we have further strengthened our network of operations for certified palm products: we are now manufacturing certified ingredients at 22 locations around the world for the cosmetic, detergent and cleaning agent industries. The latest site to receive the **Supply Chain Certificate of the Roundtable on Sustainable Palm Oil (RSPO)** was Pulnoy in France where we produce our active ingredients.

**What sets BASF apart from its competitors?**

We offer one of the most comprehensive ingredients portfolios in the personal care industry, including both commodities and specialties. Combined with our deep understanding of the interaction between raw materials, this offers great opportunities: we not only supply our customers with products; we provide them with smart solutions. Thanks to our market approach, together with our dedication to sound scientific processes, we can support them with claims and proof of efficacy. In other words, we can provide detailed results from standard testing and other innovative methods to reliably demonstrate product benefits.

What makes our portfolio even more unique is our broad range of products for natural cosmetics, ranging from basic raw materials, surfactants and emollients, to additives and active ingredients. With around 130 **COSMOS**-approved ingredients and more than 50 products evaluated according to **NaTrue** criteria, we are the largest supplier of raw materials suitable for natural and organic cosmetic products. This year, we were awarded the **NPA's Novel Ingredient and Science Award** for our portfolio of natural cosmetic ingredients.

**What is your company's approach to sustainable ingredients?** ►

More information at

[www.cossmma.com](http://www.cossmma.com), web code 100121

Your access codes for November:

User name: **cossmma11**

Password: **derma**



► **Interview with:**  
Xavier Susterac, European  
Senior Vice President  
Personal Care Business, BASF  
Monheim, Germany  
[www.carecreations.basf.com](http://www.carecreations.basf.com)







Phytosoothe from rapeseed for a dual protection of the physical and microbiotic skin barrier

We are constantly seeking more eco-friendly and sustainable solutions for the personal care industry. This year, we introduced two new products to meet the needs of today's environmental-conscious consumers: **Euperlan OP White** is a wax-based, readily-biodegradable and cold-processable opacifier dispersion with a superior white appearance for surfactant formulations. It can be used as an alternative to synthetic polymer opacifiers. And **Cegesoft Peel** consists of spherical wax beads that provide a gentle and mild exfoliation. It is a readily biodegradable and environmentally-friendly alternative to sharp-edged abrasives and non-degradable beads.

## ■ SUSTAINABLE ACHIEVEMENTS AT A GLANCE

- In 2017, BASF traced almost 80 % of their overall oil palm exposure
- BASF's traceable sustainable palm oil comes from 204 oil mills in Indonesia and Malaysia
- RSPO-certified ingredients are manufactured at 22 locations around the world
- 130 ingredients are COSMOS-approved ingredients and more than 50 are evaluated according to the NaTrue criteria

### How does BASF develop innovations in the personal care segment?

Developing new ingredients is definitely one of our core competencies. For example, four out of five newly approved UV filters in recent years have come from BASF. With our latest UV filter solution **Tinosorb S Lite Aqua**, we are bringing broad-band UV protection to the water phase. This allows cosmetic manufacturers to reduce the UV filter load in the oil phase, for increased formulation flexibility and lighter formulations. No other UV filter currently on the market provides broad-spectrum UV protection this effective in the water phase, without whitening effects and all while enabling water-resistance. In order to develop actives with exceptional properties, we have established three innovation platforms focused on microbiome, epigenetics and extraction. Here, we bring together interdisciplinary know-how

from within our company as well as from public and private research centres. For example, we teamed up with the **Cell Therapy Research Institute CTIBiotech** to perform joint research on 3D tissue models for the development and testing of bio-actives for skin care applications. In addition, we recently signed a supply agreement with **Mazza Innovation** for specific plant extracts produced using a unique, water-based extraction method that concentrates bio-actives in a very eco-friendly way.

### What have been your latest innovations in active ingredients, and what makes them so innovative?

Almost all our active ingredients are extracted from plants and many of them are based on the research of our innovation platforms. One of our latest launches is the natural active ingredient **Phytosoothe**. Derived from rapeseed, this active ingredient contains purified phytosterols enabling a dual protection of the physical and microbiotic skin barrier. It is especially suitable for formulations developed for sensitive or baby skin. Another of our actives, **RNAge**, resulted from our research in the field of epigenetics. The active, extracted from sea buckthorn, helps the dermis to remain dense, rebuilding it from deep within and firming facial shape.

### There are more and more regulatory hurdles hampering innovation. How do you overcome these obstacles?

The limitations are noticeable, especially when it comes to the approval of new ingredients, and the related processes and procedures are often



RNAge from sea buckthorn helps the dermis to remain dense

tedious. We leverage our strengths and are increasingly focused on the development of innovative formulations, sensory experiences and performance improvements. Consumer trends and needs clearly dictate which claims we need to address and prove. Furthermore, new topics such as digitalisation and personalisation are opening up a wide range of possibilities for new developments. This will give our industry further momentum and calls for new competencies.

In the future, we will need to think in broader terms when it comes to our offerings.

We need to develop offerings that encompass a large spectrum, beginning with a formulation concept and verifiable claim, a new service or new business model, right up to solutions that we cannot even conceive of today. Anything seems possible, but it will not happen overnight.

#### How would you assess the current market environment?

Both the European and global economy are very strong at the moment. But the geopolitical situation is getting more complicated and we are faced with a number of challenging situations where we do not yet know the outcome – such as Brexit, Iran sanctions, inflation in Turkey, etc. In Europe, we have successfully grown our business and will continue to aim to outgrow the market. We also expect significant growth in some emerging markets, such as Sub-Saharan Africa. This is why we have started to expand our technological services in these countries and recently announced the upcoming inauguration of an application lab in Nigeria, which allows us to develop further formulations and solutions that meet the special demands of African customers and consumers.

What are your goals for next year?

The company's comprehensive **ingredients portfolio** includes both commodities and specialties

#### 4 OUT OF 5

recently approved UV filters come from BASF

BASF's **innovation platforms** focus on microbiome, epigenetics and extraction

The **creation** of innovative formulations, sensory experiences and performance improvements is a **strong focus**

## "DEVELOPING NEW, CUTTING-EDGE TECHNOLOGIES IS WHAT WE ARE BEST AT"

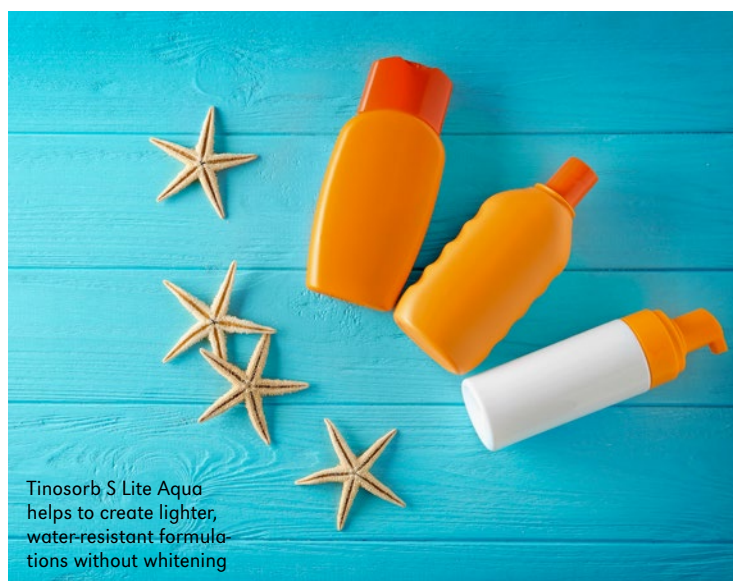
Xavier Susterac, European Senior Vice President Personal Care Business, BASF

Customer satisfaction is our main goal. We receive a lot of positive feedback from our customers, but there is always room for improvement. We see new developments influencing the market: a growing consumer base, the responsible living trend and interconnected populations in digitalised markets. Our customers are increasingly demanding strong, swift and responsive support that goes far beyond the supply of ingredients. To capitalise on the many opportunities in the personal care market, we need to embrace the FMCG business approach even more so than in the past. That means boosting our speed and flexibility, while aligning our processes with the success metrics of consumer goods companies. We have already started several measures and activities and will proceed with the roll-out. And of course, last but not least, we will continue to do what we are best at: developing new, cutting-edge technologies.

#### Do you have a favourite formulation?

It is hard to say because I have not yet had the chance to try out all our formulations. One that I can highly recommend is our formulation **Protecting Anti-Pollution Matrix SPF 10**. It is one of the formulations we developed to reduce the adhesion of pollutants and increase their removability. The gentle anti-pollution matrix is based on the natural cream base **Emul-gade PL 68/50** which can form biomimetic lamellar structures, and the polymer **Tinovis GTC UP** which forms protective anti-adhesive films against pollutants and improves the removability of particles. Thanks to the insights I have gained over the last year, I now have a new perspective on personal care products – including as a consumer – and I have started experimenting with new formulations. □

Additional information can be found on the Internet – see Internet panel



# PEOPLE



Stefan De Loecker

## BEIERSDORF

The Supervisory Board of **Beiersdorf** in Germany has appointed Stefan De Loecker (51) as Chairman of the Executive Board from 2019. He will succeed

Stefan F. Heidenreich (55), who will step down from the Executive Board at the end of 2018. Stefan De Loecker began his career at the **Nestlé Group**. In 2011, he joined **Tesco** in the UK as COO and later assumed the position of CEO of **Tesco Slovakia**. He joined **Beiersdorf** in 2012, initially as Senior Vice President Near East. In 2014, he was appointed to the Executive Board and additionally took charge of the Americas region in 2016. He was named Deputy Chairman of the Executive Board in July.

[www.beiersdorf.com](http://www.beiersdorf.com)



Christian Schmid

## C.H. ERBSLÖH

Christian Schmidt has joined the company as Sales and Product Manager in the SBU Life Sciences department, headed by Claudia Rigert. He started his career in the R&D department of **Stoko Skin Care** and worked thereafter for **IOI Oleo** as an application engineer.

[www.cherbsloeh.com](http://www.cherbsloeh.com)



Gilles Baudin

## FEA

At its 2018 General Assembly, the European Aerosol Federation (**FEA**) elected a new President. Gilles Baudin is a representative from the **Comité**

**Français des Aérosols** in France and works as Global Head of Packaging Expertise at **L'Oréal**. He succeeds Rolf Bayersdörfer, representative from the **German Industrie-Gemeinschaft Aerosole** who works at **Henkel**.

Gilles Baudin has held many positions in innovation, sustainability and product development and played a major role in

technical expertise and change management for more than 30 years at **L'Oréal**.

[www.aerosol.org](http://www.aerosol.org)

## IFF



Francisco Marano



Stephen Nicoll

**IFF** has named Francisco Marano and Stephen Nicoll as Master Perfumers. As a teenager interested in chemistry, Francisco Marano began his journey in a flavours lab in Brazil until a job opened in a fragrances lab. When the invitation to train as a perfumer materialized, he joined **IFF** in Brazil 1978. Stephen Nicoll joined **Bush Boake Allen (BBA)** in 1986, transitioning to **IFF** when it acquired **BBA** in 2000.

[www.iff.com](http://www.iff.com)



Prof Dr Juergen Lademann

## IFSCC

Prof Dr Juergen Lademann is the new President of the **International Foundation of Societies of Cosmetic Chemists – IFSCC**. He took over the presidency from Peter

Kang. Lademann is an internationally renowned scientist researching at the interface between dermatology, pharmacology and biophysics. Since 1996 the physicist has been in charge of the **Center of Experimental and Applied Cutaneous Physiology** at the **Department of Dermatology, Venerology and Allergology** of the **Charité – Universitätsmedizin Berlin**. In 2001 he was appointed Professor of Dermatology.

[www.charite.de](http://www.charite.de)



Stefan Foitlinski

## LINDAL

Stefan Foitlinski has joined the company as Sales Director for the German and East European markets. He reports to Phil

Lever, **Lindal Group's** Executive Director for Global Sales. Most recently, Foitlinski was Senior Market Manager for **Paul Hartmann (Bode Chemie)**. Previously, he worked for **Wolf Plastics Group** and **Global Closure Systems (GCS)**.

[www.lindalgroup.com](http://www.lindalgroup.com)



Dr Andrea Mitratonda

## ORIFLAME

Dr Andrea Mitratonda has re-joined **Oriflame** as Skincare Technical Manager based at the global R&D Centre in Ireland. Prior to this, he spent 7 years as Head of R&I at **Neal's Yard Remedies** in the UK. Since 1998 Andrea Mitratonda has been covering R&D, innovation and formulation technology roles in multinational manufacturers of both finished products and raw materials such as **3M**, **Intercos**, **Lamberti** and **Dow Corning**.

**Oriflame** has been covering R&D, innovation and formulation technology roles in multinational manufacturers of both finished products and raw materials such as **3M**, **Intercos**, **Lamberti** and **Dow Corning**.

[www.oriflame.com](http://www.oriflame.com)



Ann-Katrin Wienecke

## SAFIC-ALCAN

Ann-Katrin Wienecke has joined the team of **Safic-Alcan Germany** as Junior Sales and Product Manager for cosmetics. With her degree in cosmetics and detergent technology acquired from

the **OWL University of Applied Sciences**, she worked for 2 years with **Symrise**.

[www.safic-alcan.de](http://www.safic-alcan.de)



Christian Maassen

## SEIDEL

Christian Maassen is the old and new Marketing Director of **Seidel**. He started his career at **Seidel** ten years ago as a Key Account Manager and joined **Seidel's**

Marketing in 2010. In 2016, he left the company to acquire expertise in digital marketing and customer satisfaction at a CRM company.

[www.seidel.de](http://www.seidel.de)





# FAIRS, CONFERENCES AND SEMINARS

# 2018/19

WHEN?	WHAT?	WHERE?	WHO?
13.-14.11.2018	SCS Formulate	Coventry Great Britain	SCS <a href="http://www.scsformulate.co.uk">www.scsformulate.co.uk</a>
13.-14.11.2018	Seminar: Kosmetik-GMP ISO 22716	Windhagen Germany	Cosmetic Campus <a href="http://www.pfeiffer-consulting.com">www.pfeiffer-consulting.com</a>
13.-15.11.2018	Les Places d'Or Design & Packaging de Luxe	Paris France	Les Places d'Or <a href="http://www.lesplacesdor.com">www.lesplacesdor.com</a>
13.-16.11.2018	Cosmoprof Asia	Hong Kong China	Cosmoprof Asia <a href="http://www.cosmoprof-asia.com">www.cosmoprof-asia.com</a>
14.-15.11.2018	Congrès Parfums & Cosmétiques	Chartres France	Cosmetic Valley <a href="http://www.congres-parfumskosmetiques.com">www.congres-parfumskosmetiques.com</a>
14.-15.11.2018	Skin Microbiome Congress	London Great Britain	Kisaco Research <a href="http://www.skinmicrobiomecongresseu.com">www.skinmicrobiomecongresseu.com</a>
15.-16.11.2018	Skin Physiology International Meeting	Vichy France	Greentech <a href="http://www.skin-meeting.com">www.skin-meeting.com</a>
20.11.2018	Seminar: Stabilität, Sicherheit & Standards	Offenburg Germany	BAV Institut <a href="http://www.bav-institut.de">www.bav-institut.de</a>
21.-22.11.2018	Formula Cosmetics	Milan Italy	Step Exhibitions <a href="http://www.making-cosmetics.it">www.making-cosmetics.it</a>
22.-24.11.2018	International ISCD Congress	Rome Italy	International Society of Cosmetic Dermatology <a href="http://www.iscd.it">www.iscd.it</a>
23.11.2018	Seminar: Konservierungs- belastungstest	Offenburg Germany	BAV Institut <a href="http://www.bav-institut.de">www.bav-institut.de</a>
23.-25.11.2018	Beauty Kenya	Nairobi Kenya	Grow Exhibitions <a href="http://www.beauty-kenya.com">www.beauty-kenya.com</a>
25.-26.11.2018	On Hair Show	Bologna Italy	BolognaFiere Cosmoprof <a href="http://www.onhairshow.com">www.onhairshow.com</a>
26.-29.11.2018	All4pack	Paris France	Comexposium <a href="http://www.all4pack.com">www.all4pack.com</a>
27.11.2018	Icada-Fachtagung	Frankfurt Germany	Icada <a href="http://www.icama.eu">www.icama.eu</a>
27.-28.11.2018	Seminar: Produktentwicklung moderner Hautpflegemittel	Windhagen Germany	Cosmetic Campus <a href="http://www.pfeiffer-consulting.com">www.pfeiffer-consulting.com</a>
<b>01.-03.12.2018</b>	<b>BEAUTY MACEDONIA</b>	<b>Thessaloniki Greece</b>	<b>Beauty Greece Tsirimokou <a href="http://www.beautygreece.gr">www.beautygreece.gr</a></b>
04.-05.12.2018	Seminar: Kosmetik- GMP Betriebshygiene	Frankfurt Germany	Cosmetic Campus <a href="http://www.pfeiffer-consulting.com">www.pfeiffer-consulting.com</a>
06.-08.12.2018	Morocco CBHExpo	Casablanca Morocco	ElanExpo <a href="http://www.cbhexpo.com">www.cbhexpo.com</a>
11.-12.12.2018	Annual Scientific Meeting & Technology Showcase	New York USA	SCC <a href="http://www.sconline.org">www.sconline.org</a>
12.-13.12.2018	BDIH-Fachtagung	Mannheim Germany	BDIH <a href="http://www.bdi.de">www.bdi.de</a>
15.-16.01.2019	Cosmetagora	Paris France	Société Française de cosmetologie <a href="http://www.cosmetagora.fr">www.cosmetagora.fr</a>
30.-31.01.2019	ADF& PCD	Paris France	Easyfairs Oriex <a href="http://www.easyfairs.com">www.easyfairs.com</a>
06.-07.02.2019	Cosmetic Measurement & Testing (COMET)	Cergy France	Cosmetic Valley <a href="http://www.cosmetic-valley.com">www.cosmetic-valley.com</a>
26.-28.02.2019	PCHi	Guangzhou China	Reed Sinopharm Exhibitions <a href="http://www.pchi-china.com">www.pchi-china.com</a>
27.-28.02.2019	MakeUp in Los Angeles	Los Angeles USA	Beauteam SAS <a href="http://www.makeup-in-losangeles.com">www.makeup-in-losangeles.com</a>

# SUPPLIERS' GUIDE

On the following pages you will find a selection of suppliers to the cosmetic industry. The listing is in alphabetical order based on the section headings.

You can also find a full overview, with a search function, at **[www.cossma.com/guide](http://www.cossma.com/guide)**

Should your company be listed here?

Send an e-mail to **[dorothea.michaelis@health-and-beauty.com](mailto:dorothea.michaelis@health-and-beauty.com)**

We will be glad to send you details of terms and prices.



## COSMA

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For a period of: ☐ 1 year ☐ test: 3 month

☐ Yes, I agree that you may keep me advised of industry news by phone (including mobile phone), by e-mail, or in writing!

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Date, Signature

## Aerosol Mixing Balls



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glass balls for  
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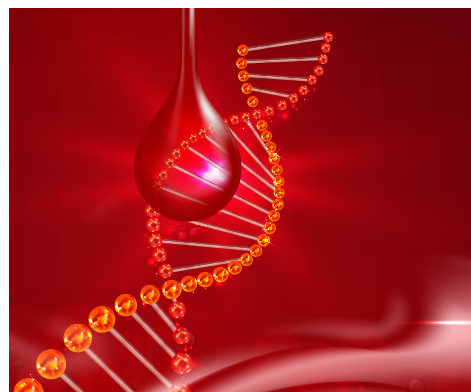
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