

Returning to the home of cosmetics

■ Lesley Foottit – in-cosmetics, UK
Richard Scott – Editor, *Personal Care*

in-cosmetics Global will return to Paris for its 30th edition in April, with the event once again providing a platform for R&D teams to source the most innovative ingredients and learn about the trends shaping the future of the beauty industry.

Supporting a growing industry

Despite global economic instability, the beauty sector continues to thrive, with experts anticipating a revenue increase of 7.14% within the next five years. And according to Mintel, there will be four major trends driving the growth – naturals, the use of marketing campaigns that encapsulate the brand's personality, personalisation and the rise of digital.

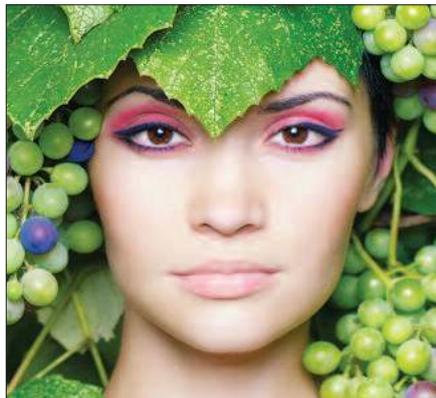
in-cosmetics Global's highly acclaimed education programme will deliver a wealth of exclusive information that will help R&D teams capitalise on these latest trends. A series of free-to-attend sessions, running across three days, will bring together the world's foremost experts, providing attendees with all the latest consumer insights, regulatory updates, scientific breakthroughs and much more.

Alongside the event's Marketing Trends, Technical Seminars and Formulation Lab, cosmetic chemists will find an exhibition brimming with innovation. Around 800 leading suppliers will present their latest ingredients at the event, with the popular Innovation Zone returning to highlight the very best launches.

An event for everyone

Throughout the world, indie brands are on the rise, with highly innovative businesses taking market share from some of the major beauty brands. To help these independent companies succeed, in-cosmetics Global will launch an Indie Trail guide at the 2019 event.

This new initiative has been curated to help these businesses find suppliers that can provide ingredients in quantities to suit a 100kg production. It will also enable them to make new connections that will aid their specific requirements, and help optimise their time at the exhibition.



Akott.

A smarter in-cosmetics

Responding to the 85% of visitors that want in-cosmetics to become a 'smart event', Konduko's Smart Reader will return in Paris. The innovative smart badge can be used as a virtual business card, enabling attendees to instantly gain access to digital content from across the show. And having helped exhibitors generate more than 41,000 leads in 2018, the smart badging system demonstrates in-cosmetics' commitment to helping suppliers build their businesses.

Roziani Zulkifli, exhibition manager of in-cosmetics Global, commented: "We are delighted to be returning to Paris for our 30th edition. For three decades in-cosmetics Global has provided beauty brands with a unique way to source the world's most exciting ingredients that allow them to tap into changing consumer preferences. And as the industry has evolved, we have added new elements to the show to ensure it remains engaging and invaluable to cosmetic chemists. The 2019 edition will bring together leading experts and the best suppliers, providing visitors with a unique opportunity to future proof their businesses by sourcing, learning and networking."

The exhibition Ingredients

Akott launches the Glowfood Line, whole food sources for glowing skin. This is an



Alban Muller.

eco-sustainable line of agricultural organic ingredients from whole fruits, herbs and vegetables, produced by a new farming technology using every single part of the food that preserves the natural content of antioxidants, vitamins and phytonutrients.

The Wholefruit Line consists of three lines of fruit products:

Fruitskin: infusions of fruit peel, seeds and stalks rich in antioxidants. This product range is available either in a filtered clear liquid version or in a creamy version with solid particles.

Fruitcream: the inner part of the fruit, the pulp, is rich in sugars forming the Natural Moisturizing Factor (NMF) that hydrates and nourishes the skin maintaining its elasticity, tone and bright look.

Fruitacqua: the constitutive waters of the fruits, that ensure perfect affinity with the skin, rich in mineral salts and hydro-dispersed components that protect, sooth and nourish the skin.

Alban Muller has created Glucohyami, a unique botanical active with the power to boost hyaluronic acid synthesis. It is a dry extract of chicory root highly concentrated in glucosamine, the essential substrate which enables the hyaluronic acid synthesis in the skin.

A unique and smart self-enrichment in glucosamine has been developed to naturally increase the content of glucosamine in the chicory root by 100. This high-quality chicory root is then used to

manufacture Glucohyami thanks to Alban Muller's specific extraction process which gets the highest concentration of active molecule. Indeed, this process includes an exclusive energy-saving drying technique, zeodration, using moderate temperatures and therefore preserving the actives.

The ingredient has been clinically tested for one month on 20 women aged 45-65 treated twice a day with a cream containing Glucohyami at 0.2%. The evaluation emphasised an improvement of the skin relief, tone and hydration. Indeed, accurate instrumental measurements highlight an increase of skin firmness and a reduction of wrinkles. These results were confirmed by a dermatologist and a visual evaluation.

The Ashland Solvers are excited about this year's in-cosmetics Global show and have an action-packed schedule of activities. Discover the latest Ashland innovations at the Ashland-sponsored Innovation Zone, and then hop over to the Ashland booth (J80) to try out their latest products in skin care, hair care and preservatives. Take a trip back in time with Ashland's green screen selfie booth, as they celebrate 80 years of their iconic PVP ingredient.

Get hands-on and join Ashland's Formulations Session, where visitors can make their own personalised skin cream. There are limited spaces available, so make sure you sign up – it takes place on Wednesday 3 April from 12:30-13:30.

Or come to listen to Ashland's hair care experts as they give a presentation on the Ashland Advantage Revive and how it helps to address consumer needs in the fast growing "dry shampoo" trend. Join Ashland on Tuesday 2 April from 14:40–15:10 in Theatre 2.

Check out Ashland's offering on the Make Up Bar, as they reveal their new season of coloured cosmetics.

Individuality can manifest in many ways. From the things you do not necessarily see, such as values or character, to physical expressions like body art or a hair style. Azelis (Booth L30) formulates personal care products which allow us to celebrate our differences and allow us to break the proverbial mould. Tailored from concept to creation to meet emerging trends and niche markets, Azelis' products encourage individuality and enable consumers to celebrate what makes them truly unique.

Six formulations, from six different personal care labs, will be on display on the Azelis stand at in-cosmetics Global 2019. All these formulations are dedicated to creating cosmetic products which are personalised and fit unique needs. They have for example created a body lotion for those who love spending time outdoors, giving a powerful shield against extreme weather conditions. More of the indoor type? They will also be showing a hand



Berg + Schmidt.

cream which protects you from blue light when using today's technology.

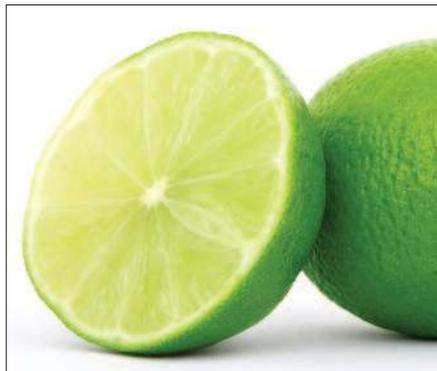
Glabridin is a powerful lightening agent, but its extreme price, instability, and poor water/oil solubility are giving formulators a hard time. To unlock glabridin's whitening properties, BergaBright SmartLipids delivery system from Berg + Schmidt (Booth R30) is an ideal innovation.

Physically protected from light and oxygen against degradation within the lipid matrix, the full efficacy spectrum of this powerful active is ensured. This patented technology takes advantage of increased bioavailability and selective occlusion, and allows a higher penetration and prolonged release of glabridin in its most effective form.

It is a natural licorice extract with boosted penetration & bioavailability offering prolonged release for amazing performance. It is easy to incorporate into formulations.

Indoors, outside, our skin is exposed to pollution all day long. Pollution is present everywhere in urban areas and is composed of pesticides, heavy metals, particles and other harmful chemicals that will disrupt skin barrier function and microbiota. Extracted from lime fruit with a patented process, rich in citroflavonoids and saccharides, Urbalime will work in and out of skin to fight against pollution and reduce cell damage.

Biolie has chosen to work with Urban Dust, a standard approved by FDA, which is representative of urban pollution, including all type of molecules, not only heavy metals or particles.



Bolie.

Under normal conditions, skin cells like epidermal keratinocytes produce energy via mitochondria. This ATP is used to equilibrate electrolytes into the cells, allows exchanges in and out of the cell, as a building block for nucleotides or as direct energy for chemical transformations.

Tested on normal human epidermal keratinocytes with and without Urban Dust, Urbalime at 1% fights against pollution by increasing ATP production and decreasing DNA damage.

Chemipol launches Sensicare NAT additive based on natural ingredients for controlling microbial growth in personal care products. The typical dosage of Sensicare NAT is below 2% on total formulation weight and can be used as a single antimicrobial additive without the need for adding adjuvants that complements its properties. It is pH independent.

Also the company is introducing new antimicrobials in their Sensicare FP series for protecting cosmetics from microbial spoilage, based on synthetic ingredients not listed in Annex VI.

Citroleo are launching two new products from the CitroTech line. Both are green surfactants free from palm oil.

The CitroTech line was developed for very special niche: companies that want to make cosmetics free from palm oil. Green CAPB-B, a green betaine is made from crude Babassu oil which retains the original properties of Babassu oils, different from ordinary betaines on the market which use refined oils (coco/palm).

Green Behenic is made with crude Pracaxi oil, rich in C22 chain and C24 chain, which gives the hair strands the most complete softness during cold detangling, and the hair's dryness when dry.

Clariant (Booth E70) is paving the way for a new strategy for its Personal Care segment by not only giving it a new look and feel but also repositioning its portfolio where sustainability and innovation are prerequisites to address its global customer needs more efficiently.

Clariant Active Ingredients will launch a new active that is opening a new era in the anti-ageing segment by targeting the long non-coding RNA 886 for a healthier ageing.

Additionally, Clariant will hold two lectures during the show:

- 'Targeting long non-coding RNA 886, an avant-gard active ingredient key to unlocking the secrets of healthy aging' (3 April 2019, Theatre 1, 9.20 – 9.50: Alexandre Lapeyre, global technical marketing manager)
 - 'The sustainable & safe neutralizer' (4 April 2019, Theatre 2, 11.20 – 11.50: Aleksandra Zmiric, marketing development Personal Care)
- Croda (Booth C60) is widely recognised



Clariant.

for providing creative solutions and innovative ingredients to meet consumer demands and future trends in the beauty and cosmetics market. Known by their well-recognised brands - Croda, Sederma and Crodaron - Croda synergistically combine the three to offer a complete solution for product manufacturers in the personal care industry. Their extensive portfolio includes market-leading actives, specialist botanical extracts, innovative effect-driven ingredients and a strong heritage portfolio of formulation aids to build a complete formulation.

During in-cosmetics Global 2019 Croda will be celebrating 'Beauty in Diversity' by highlighting how their innovation is inspired by the infinite diversity in beauty around the world and the fact that there is no single perception of beauty, but that it is unique to every individual. Croda will be showcasing a variety of new products across the hair care, skin care, solar protection and colour cosmetics categories, alongside practical demonstrations, to emphasise the importance of making beauty accessible to everyone.

Manuka Honey is nicknamed the "champagne of honeys" due to the short flowering period of the tree and its superior medicinal qualities. Indeed, this New Zealand honey is said to exhibit antibacterial qualities higher than those of other honeys, thanks to the presence of methylglyoxal. Thanks to the synergy of its actives, it moisturises and soothes the skin



Crodaron.



EG Active.

and also contributes to the revitalisation of capillary fibres for beautiful hair.

Inspired by the Korean 'honey skin' trend, **Crodaron's** Manuka Honey will help to restore a fresh, healthy, radiant complexion.

With this new ingredient, **Crodaron** actively supports responsible and committed apiculture that is respectful of its ethical, social and environmental values. This Manuka Honey is produced using apicultural methods that focus on the wellbeing of bees.

The olive tree is a true laboratory of natural bio-molecules that boost its protective and regenerative processes against aggressions. These bio-molecules are the key for its longevity.

OA Omega+, from **EG Active**, is a natural oil, created by nature but enhanced by science, that incorporates the most protective and regenerative bio-molecules of the olive tree:

- Essential fatty acids: oleic acid (omega 9), omega 6 (linoleic acid), omega 3 (alpha linolenic acid)
- Vitamine E & tocopherols
- Hydroxytyrosol
- Maslínic & oleanólic acid

With the synergistic combined action of all its bio-molecules, Omega+ is effective in different areas. For moisturising, the bimodal hydration dynamics, with a first immediate increase and a second progressive increase in a different and improved manner than typical moisturising products.

It also nourishes sensitive skin, offering excellent results for volunteers with sensitive skin, while also enhancing and repairing skin barrier function. Soothing and anti-inflammatory results are 10 times better than placebo and the ingredient has an antioxidant capacity superior to synthetic BHT and with an antioxidant capacity 920 times better than the best olive oil, an extra quality virgin olive oil.

Eurochemicals (Booth B121) will present **Osmoslim**, a new and completely natural ingredient to treat and prevent cellulite.

Osmoslim is a combination of mineral salts and vegetal extracts that act through

osmotic effect and through a selective pressure on the cell membrane ionic pumps to counteract the assimilation of fatty acids, reduce the dimpled appearance and improve cell metabolism.

Clinical studies have proved that **Osmoslim** is already active after 14 days. In a very short period of time, the silhouette is re-designed.

This year, and on top of presenting its new website and customer service, **Exsymol** emphasises the efficacy of major active ingredients with two new clinical tests:

Capalgin, **Exsymol's** extract of *Chondrus crispus*, has a unique mechanism of action which allows it to increase hair growth speed while preventing hair loss with a higher number of hairs in the anagen phase. Furthermore, hair density is increased and its quality (thickness) is also improved.

D.S.B.C is a silanol that has a core of organic silicium combined with salicylic acid for anti-ageing and soothing benefits. Here, both men and women shaved in order to cause a recurrent inflammation. **D.S.B.C** is capable of instantly soothing and hydrating the skin. In the long term, and because of the silicium's restructuring abilities, the skin is restructured and prepared, thus decreasing both inflammation and dehydration day after day. This effect is even more visible the longer the treatment.

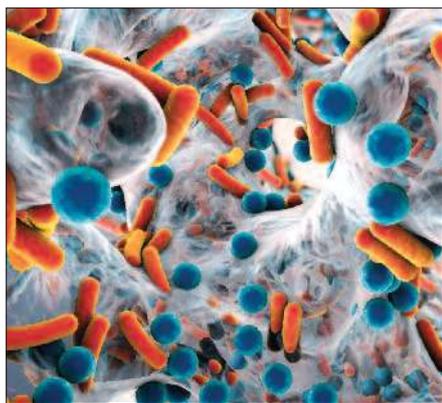
Emulsun, from **Floratch**, is a low-cost, o/w emulsifier derived from sunflower that can form a liquid crystal structure to help decrease surface tension and strongly promote emulsification. **Emulsun** offers formulators the flexibility to achieve target viscosity without the use of secondary emulsifiers; and studies show that **Emulsun** improves sensory appeal and skin hydration.

In addition, visit **Floratch** at Booth F120 to learn about their two new natural products that help create versatile emulsions and aid in the stabilisation of these emulsions. These products work independently or can allow for even greater versatility with **Emulsun**.

At in-cosmetics global in Paris, **Gattefossé** will launch a new ingredient



Gattefossé.



Gobiotics.

designed for makeup and sun care applications. Its ambition is to offer an alternative to W/Si emulsifiers, undisputed leaders in makeup formulations despite a bad environmental reputation and being growingly rejected by consumers. Named Emulium Illustro (INCI: Polyglyceryl-6 Polyhydroxystearate (and) Polyglyceryl-6 Polyricinoleate), this new W/O emulsifier is highly compatible with pigments, and is able to create stable and ultra-fluid textures with long lasting effect, natural, PEG-free, COSMOS approved and China compliant.

Characterised by its flexibility and performance, Emulium Illustro is compatible with a wide range of emollients and pigment coatings, it is easy to use and does not need any co-emulsifier. Dedicated to formulations with a high amount of pigments, it is the ingredient of choice for foundations, lipsticks or water-resistant sunscreens.

Gobiotics launches at in-cosmetics Paris 2019 preBiulin AGA. This high molecular weight Inulin is a further addition to the extensive range of functional prebiotics. preBiulin AGA is an anti-ageing prebiotic that counteracts the damage of preservatives on skin and boosts the skin's natural hydration. The hydration is superior to hyaluronic acid.

Greentech (Booth F50) will launch, at in-cosmetics Paris two active ingredients with proven efficacy.

Epsiline, developed in collaboration with its sister company Greensea from *Porphyridium cruentum*, is an extension and activator of tanning. It plays on melanogenesis main pathways and thus ensures a weathered complexion throughout the summer and makes it last.

The second active is dedicated to hair care. Originated from *Lindera strychnifolia*, the first results show that it acts on several targets of interest promoting hair growth. Therefore this new active ingredient maintains the hair's youth and beauty.

Ichimaru Pharcos (Booth F60) will exhibit 'Wamino-BonBon' a new Japanese ingredient for skin and hair care at in-cosmetics Global 2019.

Wamino-BonBon is a 100%-made-in-Japan extract that is produced with a combination of 'Sake lees' made from a high-quality Japanese Sake and molasses from the Japanese traditional sugar Wasanbon.

Accordingly, the name Wamino-BonBon comes from a combination of "Wamino", as in the 'amino' acid obtained from Sake lees (the 'Wa' referencing a (Japanese-style) ingredient), and "BonBon", meaning a sugar candy, echoing the name Wasanbon.

Wamino-BonBon is a preservative-free, natural cosmetic ingredient that is made solely with food materials, with both sustainability and traceability. Wamino-BonBon substantially changes formulation texture and moisturises skin and hair.

Urban life and its challenges to the skin require protective and restorative ingredients to be added to personal care products of daily use. Combining some of the multiple choices on ingredients present in their extensive portfolio, **IMCD** has created two prototype formulations to support skin protection fighting urban life damage: Protect & Correct and Urban Shield, both based on Purephos- α (Nikko), a versatile emulsifier with excellent properties as pollution protector and featuring texture improvement abilities. Urban Shield is an ultra-protective face cream reinforced with Silver Vine (Maruzen) fighting the ageing effects from blue light of screens. Protect & Correct is a fluid foundation of extreme homogeneity guaranteeing full protection thanks to the combination of multiple ingredients as Fomblin HC/R (Solvay) featuring anti-pollution and film-forming abilities, Belsil GB1020 (Wacker) performing with a perfect play-time without greasy after-feel, Genecare OMS Pro (DuPont) protecting from oxidative stress, and Gransil Blur X60 (Grant) designed to provide instant wrinkle blurring.

Inolex feature their latest innovations in sustainable chemistry at in-cosmetics Global 2019, Booth F110. Awake your senses with bright, bold colour from LexFeel Vibrant. Explore the unique sensory profile of 100% natural LexFeel WOW DT – fast absorption with a luxury dry touch – like cyclomethicone only better. Protect your formulations with 100% natural alternative preservation from Spectrastat. Protect consumers and our environment with SPF boosting and water-resistance from the 100% natural and biodegradable film former LexFilm Sun Natural. Discover their newest innovations in sustainable hair conditioning featuring Inolex's patented amino-acid based conditioning technology platform (Technical Seminar Thursday, 10:40 – 11:10 in T3).

The formulators at **Jojoba Desert**, an Israel-based supplier of jojoba oil, have launch their JD Jojoba Silk Like Powder.

This innovative new product integrates



Jojoba Desert.

JD Jojoba oil with tapioca starch, resulting in a silky and smooth cosmetic powder, rich in anti-inflammatory and anti-ageing benefits, containing both omega 9 and vitamin E.

It is non-GMO and aluminum-free as well, and compatible with oils, water, emulsifiers and surfactants. Due to its unique, velvety and non-fluffy texture, it is highly safe for consumers and formulators alike.

KahlWax's new 6105 beeswax substitute is an economic alternative to traditional beeswax. Being entirely free of animal-derived ingredients, it is suitable for vegan formulations. It is especially designed for the use in lip products, but can also be utilised for all other classical beeswax applications.

7037 VegoJelly is a special blend of waxes and oils in natural and vegan quality. In contrast to their regular 7036PLUS VegoJelly it contains no ascorbyl palmitate. It offers a perfect compromise between occlusivity and permeability, which protects the skin's natural barrier function and at the same time allows the skin to breathe. 7037 VegoJelly has a super soft, silky lip and skin-feel and improves pay-off of colour cosmetics. It is a multifunctional ingredient that can be used in all kinds of colour cosmetics, skin, and hair care applications with typical use levels of 5–10%.

Lipoid Kosmetik is a manufacturer of high quality botanical extracts, actives and natural phospholipid products for the cosmetic and personal care industry. Lipoid



Lipoid Kosmetik.

Kosmetik will showcase Cranberry organic Herbasol at in-cosmetics Global in Paris (Booth E118).

Biofilms are complex habitats of microorganisms on human skin. Microbes can hide inside the protective matrix of biofilms, where they have a reduced vulnerability to antimicrobial agents. This fact challenges the cosmetic industry to identify selective biofilm balancer, which specifically weaken biofilms of troublemaking bacteria, and support biofilms of advantageous microbes.

With Cranberry organic Herbasol Extract Glycerine SB, Lipoid Kosmetik presents a novel cosmetic tool that targets cutaneous biofilms. Cranberry organic Herbasol Extract Glycerine SB has anti-adhesive and anti-biofilm forming activity, but is non-biocidal. It selectively represses biofilm formation of disadvantageous microorganisms, while promoting beneficial microorganisms in biofilms. Thereby, Cranberry organic Herbasol Extract Glycerine SB controls biofilms naturally and can be used as stand-alone active ingredient to control cutaneous biofilms, or complementary to antimicrobial agents.

Let Lonza (Booth L88) help you create your next innovative skin or hair care formulation. Syneth Polyglyceryl Esters is Lonza's collection of multifunctional ester surfactants and emulsifiers. Each technology provides a unique benefit to a skin or hair care product, providing customers with an exciting way to experience and interact with the brand. Whether it is a luxurious face lotion or a hair cleaning system, let Lonza show how their naturally-derived Syneth Polyglyceryl Esters can help success.

Attendees visiting the Lubrizol stand at in-cosmetics Global will have the opportunity to explore the diversity of the Lubrizol portfolio for the personal care industry, highlighting their Compass sustainability strategy that is developed around trusted expertise and a partner integrated approach.

Lubrizol is launching innovative solutions that improve the rheology and performance

of colour cosmetics and sun care products. Including, Oilkemia 5S polymer, a multifunctional oil-soluble rheology modifier celebrated for its ability to create diverse forms and maximise visuals in oil systems.

Visitors can also check out new hair care offerings that address the need for economical styling, hair manageability and damage control.

SKINectura, from Lucas Meyer, is an innovative natural and organic active ingredient with unique properties. It increases the production of Tenascin-X, a newly identified architectural protein. Simultaneously, SKINectura increases both collagen, elastin synthesis and the contractile forces of the fibroblasts.

Extracted from a beautiful red flower, SKINectura has a multi-target mechanism, offering a 360° approach by reducing the appearances of wrinkles in eye and neck areas. It improves skin firmness, reduces sagging skin and neck roughness with fast improvement and a building effect over time.

Natural and certified organic, SKINectura offers action to rebuild the skin's structural properties and restore the appearance of younger skin. China-complaint, SKINectura is an innovative anti-ageing and lifting active ingredient.

Also, as a result of the complementary expertises of IFF-LMR and Lucas Meyer Cosmetics, the Damask rose whole olfactive compounds (from both essential oil and floral water) have been concentrated in a unique and synergistic extract to reveal its powerful de-stress and anti-fatigue action on skin. Rosality regulates cell metabolism perturbed by several stresses to protect modern women's skin against stress to recover vitality and activate glow for a more rested and awaken look.

Black BeeOme from Mibelle Biochemistry is an elixir that results from the fermentation of the rare wild dark bee *Apis mellifera mellifera* honey with the bacteria *Zymomonas mobilis* and has been designed to harmonise the skin microflora after stress to ensure a healthy and pure skin. The ferment of *Zymomonas mobilis* contains factors that may help to control the

growth of bacteria, yeast and fungi on the skin.

In vitro and clinical studies have shown that Black BeeOme promotes a faster skin flora recovery after washing as well as skin barrier recovery. In addition, the fermented black bee honey diminished the sebum production and improved the uniformity of oily and uneven face skin. When applied on a sheet mask, Black BeeOme showed a clear improvement of impure skin of volunteers living in urban, polluted areas after only 15 minutes of a single application.

Black BeeOme has been shown to efficiently exert its prebiotic effect: incorporating nutrients and generating conditions to restore the healthy skin's natural microbiota following daily stress.

Mibelle Biochemistry also presents PhytoCellTec Goji, a novel stem cell active ingredient based on goji plant stem cells which improves cell-to-cell communication via exosomes. Exosomes are small vesicles surrounded by a membrane which contain messenger molecules. Latest research has shown that exosomes produced by mesenchymal stem cells are a beneficial signal needed for skin regeneration and collagen production by fibroblasts.

In vitro studies showed that PhytoCellTec Goji revitalises aged mesenchymal stem cells and boosts their exosome production. This results in the improved production of collagen and elastin by fibroblasts. In placebo controlled clinical studies, treatment with PhytoCellTec Goji significantly improved skin density and wrinkle depth. Furthermore, a significant improvement of oval face shape through reduced sagging of facial contours was observed. Therefore, PhytoCellTec Goji rejuvenates the skin from inside out for an improved V-shaped face.

Continuing the quest to develop active ingredients based on environmental awareness and for the wellbeing of future generations, Natura-Tec will launch a unique active ingredient derived from *Nannochloropsis* microalgae obtained by a sustainable, ethical and eco-friendly patented manufacturing process. It contributes to skin and hair protection thanks to its amazing concentration in vegetable cholesterol. Cholesterol is one of the most common lipids in our body. It plays an especially important role in the stratum corneum of the skin. This outer barrier of the epidermis protects the deeper layers of the skin from environmental aggressions and allows the skin to retain moisture. This active helps maintain skin health and enhances our natural beauty thanks to its significant content of phytocholesterol.

In addition, Natura-tec shares 15 years of experience in lipid chemistry and innovative concepts to propose key novel



Lubrizol.



Mibelle Biochemistry.



Nouryon.

ingredients and emulsifier free formulations, showing the ability of their ingredients to generate safe and sustainable products. The new formulations on show will give visitors the chance to feel the natural difference.

Nouryon (formerly AkzoNobel Specialty Chemicals) will be showcasing at Booth K30 its latest product for the sun care market at in-cosmetics Global in Paris. Dermacryl X is a new film-forming polymer that helps formulators to meet the latest consumer trends in the sunscreen market. With Dermacryl X, formulators can create the finest rub-on sunscreen requiring an SPF greater than 50, while providing market leading water and wear resistance. It also reduces the stickiness and oily feel of rub-on sun care products without compromising performance. Together with Dermacryl 79, an industry-leading film former for continuous spray sunscreens, Nouryon now has a competitive product offering for the entire sunscreen market.

Paradigm Science offers a wide portfolio of biodegradable natural exfoliants sourced from the US available in a variety of particle sizes to influence feel and texture for enhanced formula efficacy and improved consumer perception. A few examples are Chardonnay Seed Powder, Cranberry Seed Powder and Diamond Dust. Paradigm's ParaOil line includes unique oils also sourced from the US: Chardonnay Seed Oil, Grapefruit Oil, and Raspberry Seed Oil.

This year, **Laboratoires Prod'Hyg** (Booth



Paradigm Science.

F100) present some new tests for their active ingredient, Prodhagem O2, a blackcurrant bud hydro glycerinated extract. This ingredient acts like a real anti-ageing and antipollution shield (anti free radicals, anti blue light), and is also a real energy booster for cells.

Prodhagem O2 has shown a positive impact on fibroblasts' contractile forces, collagen synthesis and G6PDH production, an enzyme booster of our natural antioxidant mechanism. It also acts on mitochondria, as it can increase ATP production and cellular breathing. Some *in vivo* tests have also been conducted on radiance and skin firming to confirm this active ingredient mechanism on ageing process, showing results after 28 days.

For 2 years, **Schill+Seilacher** (Booth M50) has been RSPO-certified according to Mass Balance supply chain standard. As a matter of course, Schill+Seilacher developed a range of products based on palm oil and palm kernel oil from certified sources. The company present a range of products according to Mass Balance supply chain standard which predominantly conform to COSMOS, NaTrue or Ecolabel guidelines: Perlastan (glutamate- and sarcosinate- based, sulfate free surfactants), Rheo2Green as self-thickening surfactant blends and Polyfix ZRC 25 MB known as a very effective odour absorber.

Beside this, Schill+Seilacher developed Pair2Phase, an anionic emulsifier system based on potassium cetyl phosphate for cosmetic preparations such as creams and lotions for skin and body, but also for other products like shampoos, facial cleansers, exfoliants, sunscreens, moisturisers and makeup removers. Pair2Phase allows the formulation of water resistant sun care products with a pleasant skin-feel without stickiness.

schülke has developed a new, highly effective cosmetic preservative through the optimally harmonised and patented triple combination of proven and new innovative ingredients. euxyl K 830 - innovation through experience.

With euxyl PE 9010, schülke has developed a cosmetic preservative that is highly established in the cosmetics industry worldwide. Due to the international limitation of phenoxyethanol up to a maximum of 1%, the desire emerged to raise the good effectiveness of phenoxyethanol through an even more sophisticated system to the maximum level.

euxyl K 830 is the result of schülke's competence and experience, based on phenoxyethanol combined with the OCX – Efficacy Enhancing System. The highly effective cosmetic preservative exhibits outstanding effectiveness even in neutral pH ranges. Especially in leave-on formulations, the challenge test results of euxyl K 830 are

convincing. Patent is pending.

effisin is the new schülke brand for pure active ingredients. In an environment limited by legislation and public discussions, stabilisation systems must continue to provide microbial safe cosmetic products. To support formulators' flexibility, schülke offers the pure multifunctional additive effisin CG.

effisin CG is a well-known multifunctional additive acting as a mild humectant and antimicrobial stabiliser. It is stable to hydrolysis, temperature and pH. The multifunctional is globally approved and can be used in leave-on and rinse-off applications in a recommended dosage of 0.3 – 1.0%. The high quality of effisin CG ensures that it is practically odourless and colourless.

Visit **Sederma** at Booth C60 and find customised solutions for all the dazzling individualities. First, discover Sederma's brand-new brightening active ingredient specifically developed for olive skin associated with phototypes III to V. This product, issued from plant cell culture, an eco-designed production mode, addresses specific needs of this skin type: dullness, heterogeneous pigmentation, hypersensitivity and dehydration. Diversity also exists at the bacteria level as each skin microbiota is unique; so, come and discover the range of active ingredients dedicated to restore, maintain and protect skin microbiota harmony. Probiotics, prebiotics, postbiotics and other microbiota-friendly solutions will be presented and in particular Ecodermin that recently benefited from new tests showing its ability to rebalance microbiota, bringing wellbeing and harmony. And if you are looking for a unique ingredient to expand your skin care range to active makeup, Sederma will introduce the powder version of their Majestem. Last but not least, Sederma's interactive mirror is back for a new experience.

Seiwa Kasei (Booth Q24) will introduce at in-cosmetics Global Innovation Zone its latest green ingredient: Botanical Keratin, for hair and skin care, preservative-free and certified ECOCERT and COSMOS. Despite



Seiwa Kasei.



Silab.

being of plant origin, Botanical Keratin amino acid's composition is very similar to that of keratin and as a consequence shares many of its properties like hair damage repair and tensile strength improvement. Botanical Keratin also exhibits moisturising properties as well as foaming properties when combined with detergent.

Stimulated by beauty rituals, the senses can also be awakened in the skin through unprecedented biological activity. Indeed, the discovery of sensory receptors in the epidermis, in particular olfactory and taste receptors, sparked **Silab** Research teams' interest. They made use of this innovative concept of sensoriality into the skin, stimulating mechanisms of skin regeneration.

Based on novel *in vitro* biological models, Silab demonstrated for the first time that these epidermal receptors are disrupted in the course of ageing. Reviving them is thus a strategy of choice to favour cutaneous regeneration that is weakened over time.

Silab identified the molecules that specifically target epidermal sensory receptors in the coconut, a tropical fruit imbued with sensoriality (at both taste and olfactory levels). These molecules were then isolated using a patented eco-extraction process and their mechanism of action was highlighted through two types of technological expertise (metabolomic study and molecular modeling establishing the structure/function relationship).

This scientific know-how thus enabled development of a natural regenerating active ingredient imbued with sensoriality: Sensorialine.

As an innovation company, **Siltech** has built a reputation by creating novel silicones for customers with new applications. Siltech will introduce its new oil in water dispersant Silsurf I108 at this year's in-cosmetics Global in Paris. The product stabilises oil in water emulsions while offering excellent tactile properties. The offering is unique versus other PEG-8 Dimethicones because of its high degree of polyether chains in the dimethicone backbone.

Siltech additionally will feature products



Solvay.

for formulators seeking specific benefits including D5 replacement, transfer resistance and PEG-free emulsification. Formulators looking to replace cyclomethicones can turn to Silwax D02. Silwax D02 is a silicone wax replacement for D5 that exhibits an evaporative feel while significantly reducing surface tension. Colour cosmetic chemists can benefit from Silmer QT9-30, which is a silicone resin blend without D5 that combines excellent transfer resistance with a silky feel. Silube 316 is a unique PEG-free, non-tacky inverse emulsifier providing flexibility across polar and non-polar systems. Silube 316 is effective for use in difficult systems like sunscreens, makeup and complex emulsions.

SNF (Cosmetic Valley podium) is a French company operating in water-soluble polymers. At in-cosmetics Global, SNF offer solutions through the Flocare and Fogel product ranges; for skin care, toiletries and hair care applications.

For SNF's first participation at in-cosmetics, SNF will launch a brand new inverse emulsion. This multi-functional ingredient will be bio-based, preservative and EO free. Instantaneously cold-processable, it will also help formulators to reduce time and cost processes.

Efficient at low usage levels, it will offer viscosifying, emulsifying and stabilising performance to O/W skin care formulations. From sprayable lotions to luxurious cream formulations, it allows multiple formulation types, with a non-greasy and soft skin after feel. Visitors are invited to the SNF "texture bar" for testing this new inverse emulsion, and to see the variety of other products SNF offer into the personal care market.

Miracare OGE from **Solvay** is an easy-to-use emulsifier for creating novel oil-in-polyol emulsions with a translucent or transparent gel appearance (oil gel), answering the market need for new products with novel textures. Oil gel formulations made with Miracare OGE provide: convenience (easier to dispense; non-drip & no mess application); excellent cleansing properties; easy rinsability; mildness and skin caring benefits.

Miracare NSLB, also from Solvay, is a new product proposed based on a Multi-Lamellar Vesicles technology. This technology allows high level of insoluble materials such as triglyceride oils but traditionally initiated by pH trigger and addition of high amount of salt. This new system requires no addition of salt for more suitable mild/caring formulations.

Miracare NSLB could be used for salt free formulations (e.g. facial wash) and allows stabilising high levels of plant oil (up to 30%) with a tailorable appearance/texture.

Univar will have a wide range of products from their principals at in-cosmetics Global. Actigum VSX 20 (Cargill Beauty), COSMOS-approved, is a unique association of xanthan gum and sclerotium gum combined to achieve the best properties, while Satiagel VPC 512 (also from Cargill Beauty) is a natural and ethical, COSMOS-approved, carrageenan polymer that offers strong thickening properties.

Olivem 2020 (Hallstar), is a naturally-derived cold process O/W emulsifier based on olive oil chemistry. This biomimetic ingredient combines excellent emulsification performance, natural dermollience and superior sensorial attributes.

Elevance Soft CG-200 (Elevance), a new addition to Univar's portfolio, is a 100% plant-based emollient containing coconut oil. It can be used as a moisturising agent in the oil-phase, in both O/W and W/O systems. This soft, low melting paste provides luxurious feel and a great sensory profile.

Poly Suga Mulse D9 (Colonial Chemical), ECOCERT-approved, is a PEG-free, nonionic surfactant made from 100% bio-based raw materials. It is hydrophilic, freely soluble in water and particularly non-irritant for the eyes. It also has very good solubilising properties especially with fragrance and essential oils.

KAYPO Foam LM 25 (Kao Chemicals Europe), sulfate-free mild surfactant easily thickened with salts and preservative-free, high foaming quality with creamy foam texture offering clear systems.

Phyt-N-Resist (Deinove) coming from the extremophile bacteria *Deinococcus geothermalis*, brings antioxidant protection, skin regeneration and anti-ageing benefits, through a patented method of production issued from a biofermentation technology.

AgeCap Smooth Cosmetic Ingredient (Dow) contributes to healthy skin by softening the appearance of wrinkles, promoting skin radiance and delivering skin smoothing effect.

Euro BT (Hallstar) COSMOS-approved, is antioxidant, anti-ageing, anti-irritation, anti-inflammation, anti-bacterial and skin whitening.

DMAMP Ultra PC (Angus) for lower-odour oxidative hair colorants, offers improved wash fastness of colour, excellent

colour deposition, and excellent grey coverage.

Soltex INO Polymer (Dow) will help to reach high SPF with superior aesthetics and sensorial experience. Better transparency through a reduced whiteness, improved absorbency, coverage and water resistance.

Powerful and 'green' as surfactants can be: Zschimmer & Schwarz (Booth G38) has pursued this philosophy for quite some time. For cosmetic applications "green" ideally means that the surfactant components are not only parts of nature's treasure box but also part of the human metabolism. A prominent example are amino acids which play a major role alone and as a basis material for proteins and peptides.

Zschimmer & Schwarz developed Protelan AG 37 (INCI: Disodium Cocoyl Glutamate / Sodium Cocoyl Glutamate) which is an aqueous surfactant solution. The surfactant is produced from renewable raw materials (fatty acid and the amino acid glutamic acid). Cocoyl glutamates are extraordinarily mild surfactants which are able to reduce the irritation potential of other surfactants (e. g. sulfate surfactants). Additionally, they create creamy and stable foam with fine bubbles.

Protelan AG 37 is free of propylene glycol and preservatives. The product therefore is an ideal solution to formulate bath preparations and hair shampoos in the natural cosmetics range. Protelan AG 37 is NaTrue-certifiable. Noteworthy is the unusually high percentage of active content referring to the dry matter (about 90%).

Testing and software

Bionos Biotech have developed the Bio3D Structured-light Scanner, a 3D digitalisation system based on structured-light fringe projection (grey code + phase shift method), which works at 290 fps, reducing the effects of movement and getting a higher resolution than current devices on the market. The scanner is able to scan the scene in less than 0.15 seconds, increasing the accuracy of the method (> 0.1 mm) in the 3D reconstruction of *in vivo* objects.

2D original images obtained from the face, neck or any other part of the body are processed and converted into 3D reconstructions through specific software, developed internally to perform different quantifications of the skin surface and profile, (wrinkles and acne, neck jowls reduction, face oval remodelling, anti-eye bags, etc). State comparatives can be performed before, during and after a cosmetic or clinical treatment, through overlapping and alignments (best-fit process), to estimate the level of improvement in each of the volunteers.

R&D Laboratory businesses regularly experience complex challenges when it comes to managing inventory: failure to



Courage+Khazaka.

keep precise track of stock movement in and out using manual processes, lack of stock or insufficient stock when formulating, expired samples stocks causing excess inventory and reduced lab space etc.

By integrating the inventory management module in **Coptis Lab**, the industry's software designed specifically for cosmetics, Coptis solutions enable cosmetic formulators to focus on value-adding tasks, to optimise efficiency and to effectively manage development projects and reduce time-to-market..

The new Inventory Management features in Coptis Lab include: Stock in, Stock out, Stock transfer; Laboratory or Production mode; Weighing module.

The Coptis solutions are industry standard with continuous evolutions to meet user's needs in cosmetic products development. The result of using Coptis Lab will be reducing speed to market with reliability of information.

For more than 30 years, the German company **Courage + Khazaka** electronic have been developing skin and hair testing devices for the global market. Be part of the launch of the new Visioscan generation at in-cosmetics Booth P139.

The Visioscan VC 20plus is an ideal tool for efficacy testing and claim support for cosmetics, regarding skin roughness and micro-topography.

Features include: High resolution, non-glossy images due to special LED UV-light and diffusor; Autofocus for maximum depth of focus; Easy handling of the ergonomic camera and the comfortable software; SELS parameters for description of the skin surface with indices; Topographic measurement according to DIN with the profile and the results shown immediately; Lines and free-hand objects for measurement of hair length after shaving or lesions; Ageing parameters such as directionality of the lines and closed polygons between the visible lines; Evaluation of scaliness/dryness of the skin with the foil Corneofix F 20; Determination of sebum production in real time with the foil Sebufix F 16.

Eurofins Cosmetics & Personal Care is a global company testing and evaluating a wide range of cosmetics, toiletries, raw

materials and packaging for their efficacy, safety and regulatory compliance

Clinical studies are conducted under medical control and incorporate instrumental analysis to suit specific requirements.

Lips are often not addressed in anti-ageing conversations. Yet lip volume loss and lines around the mouth are some of the earliest signs of ageing. Some products claim to prevent, reduce or eliminate lip wrinkles and lines.

To substantiate lip claims, Eurofins uses the Clarity Research 3D System. This technology combines cutting edge 2D and 3D capabilities by utilising front & side scans to create a high density mesh model to digitally analyse the lips. This measurement capability improves recognition of features and provides precise detailed information on the physical makeup and condition of the lips.

PhD Trials, the Portuguese CRO, will launch new advanced sensorial studies. They consist of innovative methods that can assess the irrational behaviour of finished product consumers when they choose or use a cosmetic product. By developing advanced techniques such as voice analysis and dynamic videos to record the Facial expression movements or Eye Tracking, the investigators of PhD Trials are able to identify the emotional state of the consumers before or during the use of the product.

It is also important to highlight the new applications developed using the confocal microscope. This advanced system, besides allowing to see changes in the skin ultrastructure, quantify collagen or papillary density, it is now also possible to measure the nail thickness and density. Finally, PhD Trials also will present the possibilities of the new system MoistureMap, an instrument by which they can analyse and obtain images of skin hydration distribution, a very interesting complement to the classic corneometric measurements.

TRI Princeton's three key research areas are skin, hair and follicle science. Skin research focuses mainly on the use of spectroscopy (FTIR and Raman) for measuring active delivery, skin moisture and other skin properties. The skin team also work in partnership with clinical test houses to provide *in vivo* spectroscopy capabilities. Hair research focuses on the development of new measurement capabilities and understanding the effects of cosmetic treatments on hair structure and properties. The hair team also provide contract testing services for claim support and product development studies. Follicle research is performed in close partnership with Monasterium Laboratory GmbH and is focused on bridging the divide between processes in the hair bulb (the living hair) with the quality of the emerging hair shaft (the dead hair). PC