

## Here comes the SUN – takeCARE!



*Challenges and new insights in the field of sun protection*

On **June 17, 2021**, the third **eVENT** from the new **SOFW eVENT** series took place. More than **375 experts** registered for the sun care **eVENT “Here comes the SUN – takeCARE”** and listened to eight presentations around the topic of “sun care”. New scientific insights as well as product presentations of well-known companies like **BASF, DSM, Jungbunzlauer** and **Symrise** were examined.

In one of the four **keynote** lectures, **Prof. Dr. Dr. Jürgen Lademann** discussed the *need for sunscreens* not only to protect against UV radiation alone, but also to provide additional protection against the visible and invisible infrared spectral range. To achieve this, pigments and antioxidants with a high radical protection factor are needed in sunscreens.

In his presentation, **Uli Osterwalder** explained the *meaning and differences of SPF, UVA protection and UVA indicator*, as well as the various legal requirements, which vary from country to country and must be considered in a formulation for sunscreen products. Several SPF measurement methods were looked at in detail. Also part of the presentation were the question of an environmentally friendly product and the high consumer expectations.

The *historical background of sunscreens* was explained by **Dr. Klaus Stanzl**: In the 19th century, doctors recognized skin diseases caused by sun exposure and tried to help their patients with colored ointments, which, however, did not enjoy great popularity. The dermatologists’ search for transparent filters that could be easily incorporated into creams or lotions picked up speed, and the importance of sun protection has become indispensable today.

**Prof. Dr. Leonhard Zastrow** spoke about a *universal body constant – the so-called FRTV* (Free Radical Threshold Value). The stability of redox homeostasis is maintained by a complex antioxidant system. Intense sun exposure produces excess free radicals that permanently destroy this balance: The total number of excess free radicals and the ratio of ROS to LOS reach a point where this “instability” is no longer balanced by the antioxidant system. According to calculations and experiments, this happens at a value of about  $3.5 \cdot 10^{12}$  radicals/mg of skin tissue. This range is the border between “essential/beneficial” and “damaging/hostile to life” and is called FRTV.



*Michaela Schier, Marketing Manager at SOFW during interviews with participating Companies.*

In her **exhibitor presentation**, **Dr. Myriam Sohn (BASF)** addressed the *challenge of developing environmentally friendly and safe high SPF sunscreens*. She showed that triazine UV filters, including oil-soluble triazines and water-dispersed tris-biphenyl triazines (TBPT), offer a real alternative to EHMC and OCR, which have come under scrutiny.

*Consumer demands for a comfortable, lightweight sunscreen texture* that is also easy to use, practical, travel-friendly and, not to forget, environmentally friendly was highlighted by **Laetitia Marlier (DSM)**. There is a trend towards multifunctional or hybrid sunscreen products, which fulfill several functions in one product. Formulators face the difficult task of achieving high aesthetic properties with very high SPF and UVA protection with less UV filters, while being safe for people and the environment.

The presentation by **Dr. Teresa Berninger (Jungbunzlauer)** focused on *citrate esters*. These are used, for example, as emollients and solubilizers of organic UV filters in sunscreens, and have a significant influence on the type and amount of UV filters and the sun protection factor achieved during formulation. The 100% bio-based CITROFOL® AI contributes to an improvement in the protection effect of sunscreens, a pleasant skin feel and a reduction in production costs.

**Nadine Krug** and **Ev Süß (Symrise)** presented their ingredients *SymEffect™ Varytex* and *NeoHeliopan® Flat*. These feature a wide range of applications, easy handling and dosing. Both ingredients can also be combined with each other and help to optimize costs, production time and energy.

No  
need  
for  
expensive  
scatter  
loss?

Formulations for sun care and sun protection products are very complex and require extensive knowledge on a wide range of levels and areas. Consumer demands also continue to increase, especially in terms of environmental friendliness. In this sense, we are very pleased with the numerous, interested participants, which came for the most part from the business field “raw material manufacturers and suppliers” (28.5%) and “manufacturers of end products” (26.5%). Experts from laboratory and analytical facilities were represented with 15%.

On **September 09, 2021**, our next eVENT “**SkinNEWvation**” will take place, quite surprisingly, around the topic “skin care”. Here we will cover *microbiome-friendly & probiotic cosmetics, facial care, skin cleansing, soaps & hand sanitizing, moisturizing and skin analysis*. **Registration** for this opens on **August 05, 2021**.



Want to **stay informed** about our **SOFW eVENT** series? Why not **sign up** for our **newsletter** at [www.SOFWeVENTS.com](http://www.SOFWeVENTS.com).

**Contact us!**

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[eVENTS@sofw.com](mailto:eVENTS@sofw.com)

### Mark your calendar

**Sep 09, 2021**

10:00 CET - 18:00 CET

PERSONAL CARE  
**SkinNEWvation**

>> more

**Dec 02, 2021**

10:00 CET - 18:00 CET

PERSONAL CARE  
**Rapunzel, don't let your  
HAIR down!**

>> more

Event Report: SOFW eVENT Here comes the SUN – takeCARE!

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the answer.



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