



## KRÜSS software revolutionizes drop shape analysis for contact angle measurement

- ADVANCE software with new evaluation algorithm at the European Coatings Show 2017
- Robust, automatic measurement, even with the most difficult drop images
- Reliable evaluation also at very small contact angles

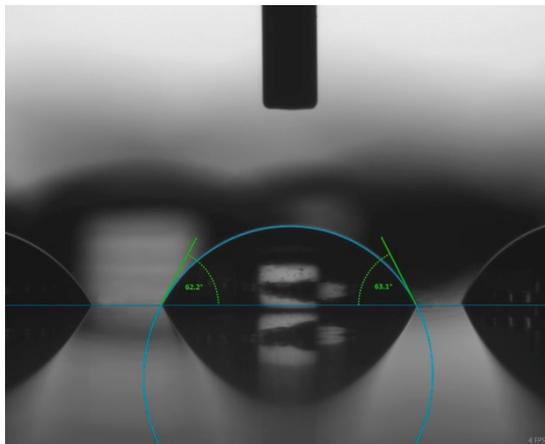
**Hamburg, March 28, 2017** – KRÜSS will be presenting a completely new image evaluation algorithm for contact angles in the ADVANCE software at the European Coatings Show 2017 in Nuremberg (Germany) from April 4 to 6. For analyzing wetting and adhesion, the software detects the drop shape and the interface between drop and surface (base line), even in the face of severe interference, which can be caused by extraneous light or shadows, for example. With conventional software, these cases make evaluation difficult, whereas ADVANCE can almost always carry it out automatically, which makes the measurement of contact angles faster. Furthermore, the analysis becomes less dependent on the user, as manual intervention is no longer required.

The effectiveness of the software becomes particularly noticeable with position-dependent wetting measurements, for instance when checking the homogeneity of a coating or cleaning process. In this case, drops are frequently dosed onto a number of sample positions in a rectangular matrix. Therefore, several drops lie on a line between the illumination source and the camera of the contact angle measuring instrument. Previously, drops had to be removed in the course of the measurement to ensure that they did not throw troublesome shadows. The extremely robust image evaluation of ADVANCE makes this step obsolete.

In many applications, such as quality control of glass cleaning processes, very flat drops form as a result of samples with good wettability. This range between 1° and 10°, which was previously technically difficult to measure, is resolved outstandingly well with the new algorithm. ADVANCE is therefore able to detect the smallest inhomogeneities in the course of programmed procedures.

KRÜSS Managing Director Florian Weser sees the further development of ADVANCE as a milestone in interfacial science. "Over the years, we have worked with a vast number of images which were extremely difficult to evaluate. The achievement is globally unique, and raises the bar for drop shape analysis significantly," says Weser. KRÜSS will be demonstrating the ADVANCE software with different mobile and stationary contact angle measuring instruments at the European Coatings Show 2017 in Hall 5, Stand 5-327.

## Photo



Automatic contact angle measurement on a close succession of drops with ADVANCE

## About KRÜSS

**Advancing your Surface Science.** As specialists in interfacial chemistry and the world's leading supplier of measuring instruments for surface and interfacial tension, we not only provide high quality product solutions – our offer is a combination of technology and scientific consulting. These include seminars and technical service as well as our Applications & Science Center for trainings and professional measurement services. Our exclusive distribution network and our locations in Hamburg (Germany), China, the US, Great Britain and France allow us to provide fast, flexible support for R&D labs and in quality control throughout the world. Our expertise, precision and passion have already convinced many prestigious companies in countless industries.

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