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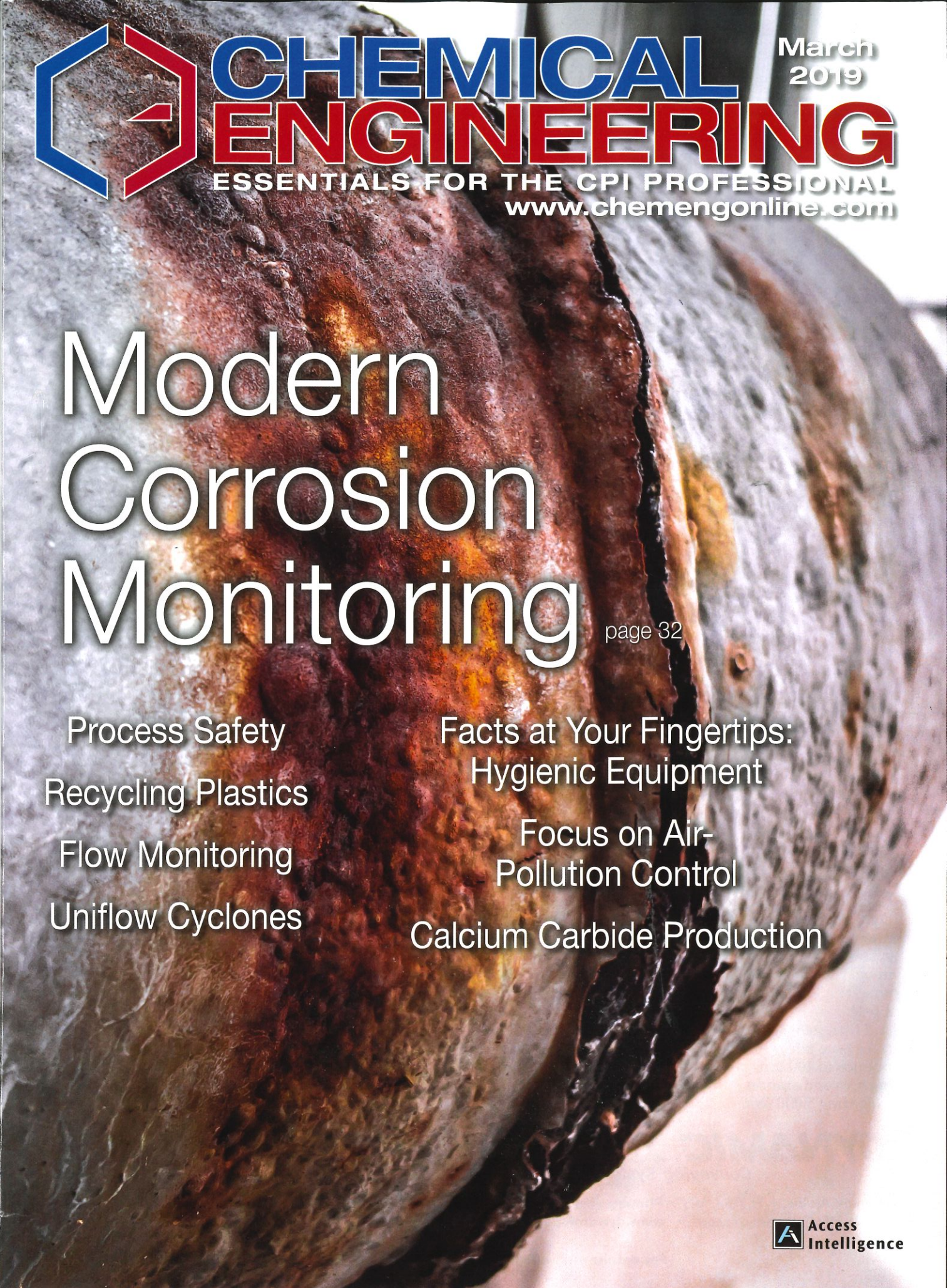

Modern Corrosion Monitoring

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Process Safety

Recycling Plastics

Flow Monitoring

Uniflow Cyclones

Facts at Your Fingertips: Hygienic Equipment

Focus on Air-Pollution Control

Calcium Carbide Production

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EKATO

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Next generation EKATO ISOPAS

Over the last 85 years, EKATO has become the world market leader in agitation and mixing technology. With **EKATO SYSTEMS**, the product portfolio turned into a complete solutions provider for vacuum processing units. The application range includes mixing and drying of solids (EKATO SOLIDMIX) as well as mixing and dispersing of semi solids from liquids to highly viscous products (EKATO UNIMIX).

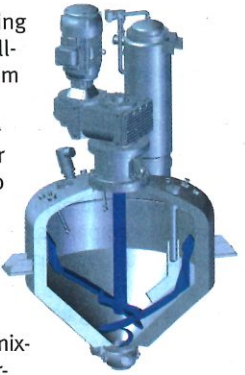
The EKATO SOLIDMIX technology is used around the globe in a wide variety of industries.

The Vertical Process Dryer (VPT) series has been developed for vacuum contact drying of products with unique flow properties and a pronounced phase transfer. The EKATO ISOPAS with its efficient and effective axial and radial mixing is the ideal agitator for this purpose.

The ISOPAS geometry in combination with the baffle ensures short mixing times and efficient heat transfer. The steep blade shapes, the conical vessel bottom and the low ratio of agitator surface to vessel volume result in a higher product discharge in comparison to other drying systems.

In addition to the unique and excellent mixing results, the EKATO ISOPAS agitator has been further developed in terms of process technology.

The ISOPAS blade design is extended upwards in the cylindrical part of the vessel resulting in best mixing conditions on high filling levels already from the beginning of the drying process wherever a phase transfer from a suspension to kneading towards powder is needed.



Furthermore the agitator leads to a more effective heat transfer and shorter mixing times due to a particularly small wall clearance. The optimized design enables an even higher product yield, especially with products that tend to form deposits. These products are also removed from the wall of the cylindrical vessel section. Due to the extension, the agitator protrudes the product even at higher filling levels, thus ensuring good mixing at all times. Depending on the requirements of the product, further modifications can be realized, e.g. a heated agitator shaft or modifications to reduce the shear stress of the product.

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