

Press Release

BYK-Gardner User Meetings 2018 The Insider Tip for CLASS A Quality Control of Automotive Exterior Finishes

Geretsried, November 29, 2018



On November 7/ 8, 2018 BYK-Gardner known for innovative QC solutions for color, appearance and physical properties conducted its 9th US User Meeting in Dearborn, MI and two weeks later on November 25 / 26, 2018 its 12th European User meeting in Heidelberg, Germany.

The theme of both meeting was “Color and Appearance Harmony” using BYK-Gardner’s measurement solutions to achieve CLASS A surface quality.

Over 100 participants from the automotive industry including paint and part suppliers exchanged their experience with best practices and new approaches to visually evaluate and instrumentally control Color and Appearance of solid and effect finishes. Speakers from several automotive companies and their entire supply chain presented a variety of topics:

Objective data analysis to optimize color & appearance quality

- Dissecting Orange Peel –
A Process Oriented Approach by Mike Bonner, St. Clair Systems
- How Black is Black –
Jetness analysis by BYK-Chemie, Dr Jörg Achterkamp and Brent Laurenti
- Don’t generate a wave –
Effect pigments and wave-scan by Dr. Andrea Fetz, Eckart GmbH
- Influences on effect pigments in coating systems.
Examples based on several experiments by Werner Rudolf Cramer, Consultant
- Use of the Fingerprint Method to test for application robustness of coatings
by Dr. Karl Dössel, Orontec GmbH

Visual and instrumental color and effect control

- Practical considerations for visual and instrumental analysis
by Stuart Kendall Scott and Maika Spreeman, BASF Coatings
- Visual and instrument assessments with discussion of new color systems
BASF Coatings, Dr Carlos Vignolo and BYK-Gardner GmbH, Konrad Lex
- The Creation of Total Color Appearance, Masayuki Osumi, Office Color Science Co
- Color Differences in Standard Gray Scales for Color Change:
Influence of the Viewing Angle by Dr Manuel Melgosa, Departamento de Óptica, Facultad de Ciencias, Universidad de Granada, 18071 Granada
- Definition of a measurement scale of graininess from reflectance and visual measurements
by Dr. Esther Perales and Dr. Francisco Martínez-Verdú, University of Alicante

New Understanding of Appearance

- A new method to analyze wave-scan raw data with FFT provides numbers that are in very good agreement with perceptual data derived from various visual assessments, Thomas Dauser Audi AG

Digitalization to CLOSE THE LOOP

- Smart data acquisition and transformation into Information to support Optimal Decision Making: Mike Coulthard, General Motors Corporation
- Color Harmony through Data Share by Mary Brooks and Jeana Chinn, Ventra and Shawn Dvonch, Ford Motor Corporation
- Statistical Process Control of Color by John Seymour, John the Math Guy LLC
- Challenges for automated quality measurements and intelligent ways for modern paint processes by Hans Jürgen Multhammer, ASIS GmbH
- Integrative coating concepts in the context of digitalization by Fabian Müller, Karl Wörwag Lack- und Farbenfabrik

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Page

1/1

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Press Release

New mobility concepts

- The Future of transportation mobility and its effect on coatings, color, and pigments by Chris Seubert, Ford Motor Company

Working as a team – benchmark studies

- Mission Accomplished through Team Work – It Takes a Team... to Coordinate a Benchmarking Survey, Linda Gerhardt, GM Vehicle Systems, Tracey Moorer, Fiat Chrysler Association and Rae Roby, BYK-Gardner USA

BYK-Gardner presented their latest product developments, which were developed in partnership with key players from the automotive industry and their supply chain:

- New spectro2guide: Color spectrophotometer with smallest fluorimeter integrated to predict color stability
- New byko-spectra pro: Light boot with CLASS A daylight D65
- New project to objectively measure color, gloss and surface texture

A combination of practical applications to consider for correlating visual and instrumental data, real new developments in the field of color and appearance and the opportunity to meet and exchange information with experts make this event a real insider tip in the automotive industry.

More information is available from BYK-Gardner GmbH, P.O. Box 970, 82534 Geretsried, Germany: By fax: +49-8171-3493-140, the free service no. 0-800-gardner (0-800-4273637) or on the Internet at <http://www.byk.com/instruments>

BYK is one of the world's leading suppliers in the field of additives and measuring instruments. Additives are chemical substances which, when used in small quantities, improve product properties such as scratch resistance or surface gloss. Manufacturing processes are also optimized by the addition of additives.

The coatings, inks, and plastics industries are among the main consumers of BYK additives. Yet with the production of oil and gas, the manufacture of care products, the production of adhesives and sealants, and construction chemistry, too, BYK additives improve the product characteristics and production processes. Testing and measuring instruments from BYK can effectively evaluate the quality of color, gloss, and appearance as well as the physical properties of paint, plastic, and paper products and are an important part of quality control.

As a globally operating specialty chemicals company, BYK has production sites in Wesel, Kempen, Moosburg, Schkopau and Geretsried (Germany), Deventer, Denekamp and Nijverdal (Netherlands), Widnes (UK), Wallingford, Chester, Gonzales, Louisville, Rochester Hills, Earth City (USA) and Tongling (China).

Today the company employs around 2,200 people worldwide and forms part of the ALTANA Group.

This press release is also available on the Internet at www.byk.com/press.