

Full Texts & Abstracts of **SERES'18**

Editors

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seres'18

**IV. INTERNATIONAL CERAMIC, GLASS, PORCELAIN,
ENAMEL, GLAZE AND PIGMENT CONGRESS**

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Anadolu University
Eskisehir Technical University
Eskisehir / Turkey**



Turkish Ceramic
Society



ANADOLU UNIVERSITY



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SERES'2018 Brings Ceramic People Together in Eskisehir

With the assistance of Anadolu University, Turkish Ceramic Society (TSD) organizes **SERES'18 "IV. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress"** which aims to bring academicians, artists, designers in the fields of ceramic, glass, porcelain enamel, glaze, pigment and cement, and people of regarded industries together, supplying them suitable arena for sharing knowledge and experiences and for determining possible future collaborations with its wide range of coverage. SERES'18 will be held on the **10 - 12 October 2018** in Anadolu University, Yunusemre Campus Congress Centre and in Eskisehir Technical University, Iki Eylul Campus Eskişehir/Turkey.

As you know, congresses are not only the activities anymore where scientists gather together and foster the recent advances in art, science and industry but they have also become the organizations where the culture and values of their location are appreciated. Accordingly, a rich social program waits for you so that you can enjoy the unique artistic and cultural features of Eskişehir.

On behalf of the organizing committee, it is my pleasure for me to invite you to participate in this exciting meeting.

I look forward to seeing you in October in Eskişehir.

Best Regards,

On behalf of Organising Committee

Prof. Dr. Alpagut KARA (Chairman)

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IV. INTERNATIONAL CERAMIC GLASS PORCELAIN
ENAMEL GLAZE AND PIGMENT CONGRESS
October 10-12, 2018, Eskişehir, Turkey

**Full Text of
INVITED SPEAKERS**

INVESTIGATION OF TECHNICAL PROPERTIES IN BRICKS BY USING COLOR IMAGE ANALYSIS

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Bricks, as one of terra cotta based construction materials have a large production capacities in Afyonkarahisar/Turkey industry. Continuous improvements either in raw materials or manufacturing conditions take great importance for mass production. In this sense, color image analysis was studied in order to assess the technical properties consistently in the earliest time possible. For this purpose, three different brick samples, having different kinds of raw material compositions and firing temperatures, were supplied from different companies located near to Afyonkarahisar city. These samples were initially cutted in thin sections and dry grinding operation was carried out so as to achieve smooth surfaces. The samples were placed on lamellae and once again sensitively grinded, and afterwards optical microscopy images were obtained. The obtained images were then processed by numerically via MATLAB software and RGB (red-green-blue) values were found out. The assessment of technical test results of company samples and RGB values were figured out, and it was concluded that color image analysis is satisfactorily consistent with technical test results of companies and can be utilised in place of time consuming analysis efforts during production in companies.

Key words: bricks, color, image analysis