



ÓBUDA UNIVERSITY

REJTŐ SÁNDOR FACULTY OF LIGHT INDUSTRY  
AND ENVIRONMENTAL ENGINEERING

# ÁKOS BORBÉLY PHD

ASSOCIATE PROFESSOR

## ABOUT

Ákos Borbély PhD is associate professor at Óbuda University. His research interests include color measurement, optical characterisation of printed products, lighting technology, sustainability of digital media.

He has been a lecturer for more than 15 years. His courses include Theory and measurement of color, Metrology, Information technology.

## PROFESSIONAL PROFILES

[Research Gate](#)  
[MTMT](#)

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## UNIVERSITY CAREER

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**Óbuda University, Budapest (Hungary)**  
**2010-**  
Associate Professor

**Óbuda University, Budapest (Hungary)**  
**2009-2018**  
Vice Dean

**Óbuda University, Budapest (Hungary)**  
**2009-2011**  
Deputy Head of Institute of Media Technology

**Óbuda University, Budapest (Hungary)**  
**2005 – 2009**  
Adjunct Professor

## RESEARCH CAREER

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**Lawrence Berkeley National Laboratory (USA)**  
**2002 - 2004**  
Research Fellow, Department of Building Technologies

## PRIZES

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**Dr. Lukács Gyula Emlékdíj 2005**

**Karl Miescher Preis 1998 (Vienna)**  
2<sup>nd</sup> Prize

## EDUCATION PROFILE

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**2004: PhD degree** (information technology) – University of Pannonia, Veszprém (Hungary)

**1992-1998: MSc** (information technology) – University of Pannonia, Veszprém (Hungary)

## SELECTED ARTICLES

P. Prokai ; Á. Borbély;

Application of Laser Engraving for the Personalization of Card Documents

In: Arif, Özcan; Dogan, Tutak; Emine, Arman Kandirmaz; Zafer, Özomay; Üyesi, Üyesi Mehmet Oğuz; Üyesi, Üyesi Yasemin Sesli (szerk.) 4th International Printing Technologies Symposium : PRINTISTANBUL 2023 : PROCEEDING BOOK (2023) pp. 343-350. , 8 p.

Á. Borbély

COLORIMETRIC INVESTIGATION OF FALL FOLIAGE

In: Hosam, Bayoumi Hamuda Proceedings Book of 13th ICEEE-2022 International Annual Conference on "Global Environmental Development & Sustainability: Research, Engineering & Management" Budapest: International Council Of Environmental Engineering Education (ICEEE), Óbudai Egyetem (2022) 579 p. pp. 270-275. , 6 p.

R. Szentgyörgyvölgyi ; Á. Borbély

Weather Resistance of Inkjet Prints on Plastic Substrates

JOURNAL OF GRAPHIC ENGINEERING AND DESIGN 6 pp. 11-14. , 4 p. (2015)

R., Szentgyörgyvölgyi ; Á. Borbély

Quality of Electrophotographic Prints On Foil Substrates

JOURNAL OF GRAPHIC ENGINEERING AND DESIGN 1 : 1 pp. 1-7. , 7 p. (2011)

Á. Borbély ; S.G. Johnson

Performance of phosphor-coated light emitting diode optics in ray-trace simulations

OPTICAL ENGINEERING 44 : 11 (2005)

Á. Borbély ; S.G. Johnson

Prediction of light extraction efficiency of LEDs by ray trace simulation

In: Ian, T. Ferguson (szerk.) SPIE (The International Society for Optical Engineering): Third International Conference on Solid State Lighting San Diego (CA), USA : SPIE (2004) pp. 301-308. , 8 p.

Á. Borbely; J. Schanda

Colour matching using LEDs as primaries

COLOR RESEARCH AND APPLICATION 29 : 5 pp. 360-364. , 5 p. (2004)

P. Bodrogi ; B. Sinka ; A. Borbely ; N. Geiger ; J. Schanda

On the use of the sRGB colour space: the 'Gamma' problem

DISPLAYS 23 : 4 pp. 165-170. , 6 p. (2002)

A. Borbely ; A. Samson ; J. Schanda

The concept of correlated colour temperature revisited

COLOR RESEARCH AND APPLICATION 26 : 6 pp. 450-457. , 8 p. (2001)