ERRATUM 1   (September 2012)

to CIE 203:2012 A Computerized Approach to Transmission and Absorption Characteristics of the Human Eye

1. <u>Page 14:</u>

    Paragraph after Equation (3):

    "Tables A.3 and A.6 of this report describe the spectral transmission of a young (< 10 years old) human eye. The rhesus monkeys upon which the curves are based were 2 years to 8 years old. An excellent match was found for the data of Table A.3 when the age was set to 1 year to 10 years and the empirical equations of van de Kraats (2007) were slightly modified to adjust …"

    should read:

    "Tables A.3 and A.6 of this report describe the spectral transmission of a young (< 10 years old) human eye. The rhesus monkeys upon which the curves are based were 2 years to 8 years old. An excellent match was found for the data of Table A.3 when the age was set to 1 year **and** 10 years, and the empirical equations of van de Kraats (2007) were slightly modified to adjust …"

2. <u>Page 14:</u>

    Equation (4):

$$D_{\tau\,\text{media}}(\lambda) = (0{,}15 + 0{,}00031 \cdot a^2) \cdot (400/\lambda)^4$$
$$+ 14{,}19 \times 10{,}68 \cdot \exp\left(-\{[0{,}057 \cdot (\lambda - 273)]^2\}\right)$$
$$+ (1{,}05 - 0{,}000\,063 \cdot a^2) \cdot 2{,}13 \cdot \exp\left(-\{[0{,}029 \cdot (\lambda - 370)]^2\}\right)$$
$$+ (0{,}059 + 0{,}000\,186 \cdot a^2) \cdot 11{,}95 \cdot \exp\left(-\{[0{,}021 \cdot (\lambda - 325)]^2\}\right)$$
$$+ (0{,}016 + 0{,}000\,132 \cdot a^2) \cdot 1{,}43 \cdot \exp\left(-\{[0{,}008 \cdot (\lambda - 325)]^2\}\right) + 0{,}06 \qquad (4)$$

    should read:

$$D_{\tau\,\text{media}}(\lambda) = (0{,}15 + \underline{\mathbf{0{,}000031}} \cdot a^2) \cdot (400/\lambda)^4$$
$$+ 14{,}19 \times 10{,}68 \cdot \exp\left(-\{[0{,}057 \cdot (\lambda - 273)]^2\}\right)$$
$$+ (1{,}05 - 0{,}000\,063 \cdot a^2) \cdot 2{,}13 \cdot \exp\left(-\{[0{,}029 \cdot (\lambda - 370)]^2\}\right)$$
$$+ (0{,}059 + 0{,}000\,186 \cdot a^2) \cdot 11{,}95 \cdot \exp\left(-\{[0{,}021 \cdot (\lambda - 325)]^2\}\right)$$
$$+ (0{,}016 + 0{,}000\,132 \cdot a^2) \cdot 1{,}43 \cdot \exp\left(-\{[0{,}008 \cdot (\lambda - 325)]^2\}\right) + 0{,}06 \qquad (4)$$

3. <u>Page 16:</u>

First sentence on this page:

"Van de Kraats (2007) also included an empirical equation giving the transmittance for a larger field of view (> 3° vs. 1°), which differed from the total transmission equation in that it provided a stronger scatter function and greater baseline optical density."

should read:

"Van de Kraats (2007) also included an empirical equation giving the transmittance for a **<u>small</u>** field of view (**<u>1° vs. > 3°</u>**), which differed from the total transmission equation in that it provided a stronger scatter function and greater baseline optical density."

4. <u>Page 16:</u>

Equation (5):

$$
\begin{aligned}
D_{\tau,\,\text{media}}(\lambda) = \ & (0{,}3 + 0{,}00031 \cdot a^2) \cdot (400/\lambda)^4 \\
& + 14{,}19 \times 10{,}68 \cdot \exp\left(-\{[\,0{,}057 \cdot (\lambda - 273)]^2\,\}\right) \\
& + (1{,}05 - 0{,}000\,063 \cdot a^2) \cdot 2{,}13 \cdot \exp\left(-\{[0{,}029 \cdot (\lambda - 370)]^2\,\}\right) \\
& + (0{,}059 + 0{,}000\,186 \cdot a^2) \cdot 11{,}95 \cdot \exp\left(-\{[0{,}021 \cdot (\lambda - 325)]^2\,\}\right) \\
& + (0{,}016 + 0{,}000\,132 \cdot a^2) \cdot 1{,}43 \cdot \exp\left(-\{[0{,}008 \cdot (\lambda - 325)]^2\,\}\right) + 0{,}17 \qquad (5)
\end{aligned}
$$

should read:

$$
\begin{aligned}
D_{\tau,\,\text{media}}(\lambda) = \ & (0{,}3 + \textbf{\underline{0{,}000031}} \cdot a^2) \cdot (400/\lambda)^4 \\
& + 14{,}19 \times 10{,}68 \cdot \exp\left(-\{[\,0{,}057 \cdot (\lambda - 273)]^2\,\}\right) \\
& + (1{,}05 - 0{,}000\,063 \cdot a^2) \cdot 2{,}13 \cdot \exp\left(-\{[0{,}029 \cdot (\lambda - 370)]^2\,\}\right) \\
& + (0{,}059 + 0{,}000\,186 \cdot a^2) \cdot 11{,}95 \cdot \exp\left(-\{[0{,}021 \cdot (\lambda - 325)]^2\,\}\right) \\
& + (0{,}016 + 0{,}000\,132 \cdot a^2) \cdot 1{,}43 \cdot \exp\left(-\{[0{,}008 \cdot (\lambda - 325)]^2\,\}\right) + 0{,}17 \qquad (5)
\end{aligned}
$$