



# LumiDoz-10

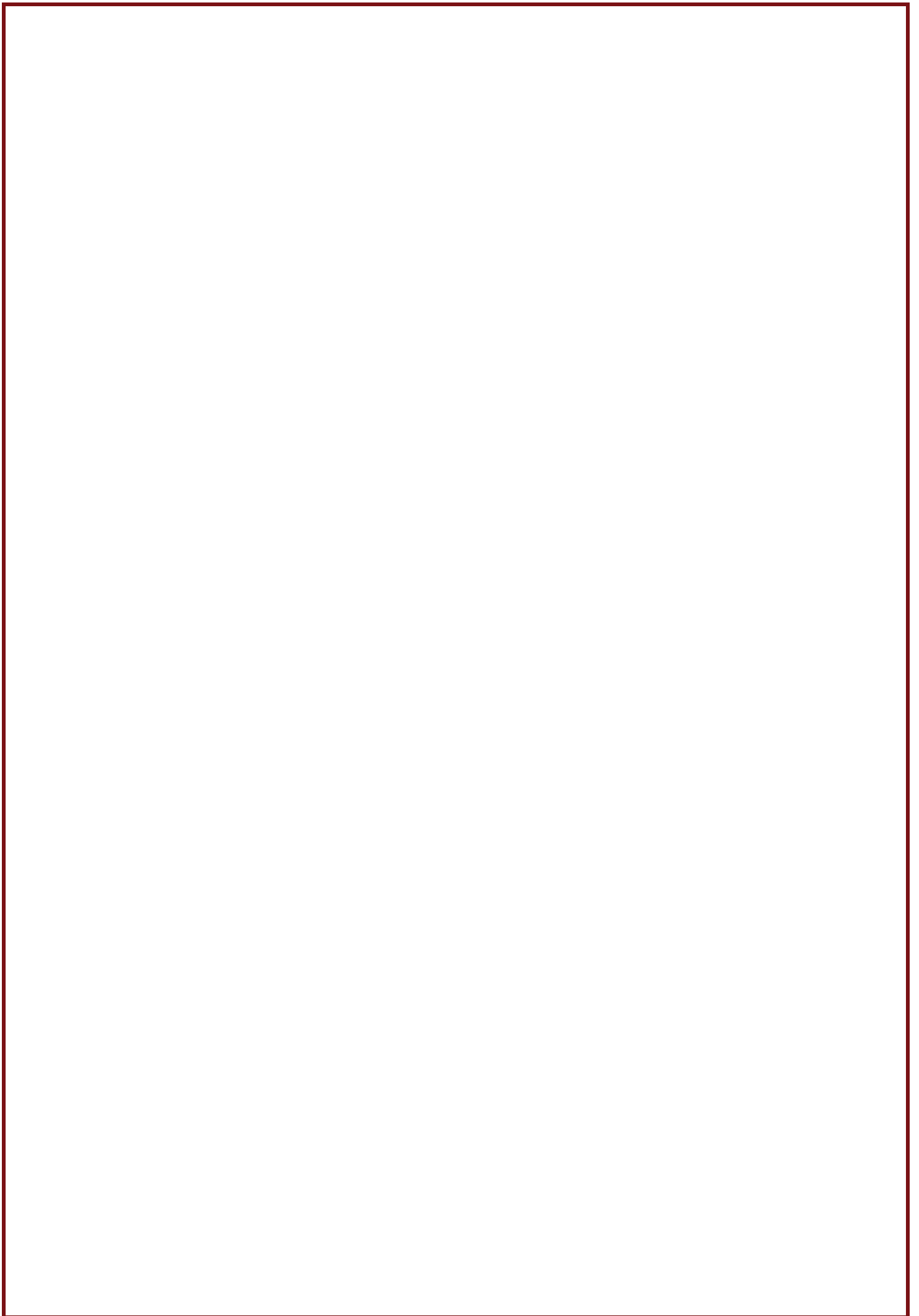
**10<sup>th</sup> International Conference on  
Luminescence and ESR Dosimetry**

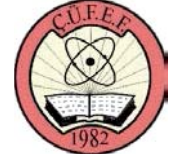
## Book of Abstracts



**5-7 September 2016  
Çukurova University, Adana, TURKEY**

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**10<sup>th</sup> International Conference on  
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## **Book of Abstracts**

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## Radioecological Analysis of Samsun-Ordu Highway Soil Samples

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### Abstract

In this study, the level of radioactivity concentrations were determined from the naturally occurring radionuclides <sup>226</sup>Ra, <sup>232</sup>Th and <sup>40</sup>K in soil samples collected from Samsun-Ordu highway using  $\gamma$ -ray spectrometry. Samples of soil were collected in their natural form and they were dried at 105°C for eight hours and then were counted any chemical pre-treatment. The mean activity concentrations of <sup>226</sup>Ra, <sup>232</sup>Th, and <sup>40</sup>K are  $16.8 \pm 1.7$ ,  $17.2 \pm 3.25$  and  $571.95 \pm 14.35$  Bq.kg<sup>-1</sup> respectively are derived from all the soil samples studied.

**Keywords:** *Luminescence, ESR dosimetry, Physics, Dating, Irradiation.*

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