



## SESSION CLPL 1

<b>TITLE</b>	<b>Application of bioluminescence and chemiluminescence to flow Injection analysis</b>		
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<b>ABSTRACT</b>	<p>Bioluminescence (BL) and Chemiluminescence (CL) reactions have been widely applied to chemical and biochemical analyses. Especially, one of the active fields in their analysis methods is application to a Flow Injection Analysis (FIA) system and micro-flow system. Since the first report by J. Růžička and E.H. Hansen in 1975, the FIA system solved the drawbacks of these luminescence reactions spectacularly. For example, the luminol CL reaction has narrow range of optimum conditions such as pH value for highly sensitive detection of analyte. Therefore, in the cases of multi-step reaction, it was necessary to separate from the CL reactions performed in the vicinity of neutrality such as enzymatic reaction. Currently, these luminescence FIA methods are known as highly sensitive and reliable methods by providing several control systems, automation, and miniaturization. Thus, the luminescence-FIA system has been extensively studied in the fields of environmental, food, and clinical analyses as a fundamental or practical tool in recent years. In this session, we are looking for the latest research presentation in many fields related to the both BL and CL applying to the FIA method.</p>		
<b>KEYWORDS</b>	Flow Injection Analysis, Flow System, Luminol, Luciferin, Automation		