

Abstract

Good Laboratory Practice in Analytical Chemistry with Modern Laboratory Management[†]

Jacobus (Koos) Frederick van Staden

Laboratory of Electrochemistry and PATLAB, National Institute of Research for Electrochemistry and Condensed Matter, 202 Splaiul Independentei Str., 060021 Bucharest, Romania; koosvanstaden2012@yahoo.com

[†] Presented at the Virtual Eurachem Workshop 2020—“Quality Assurance for Analytical Laboratories in the University Curriculum”, 14–15 July 2020; Available online: <https://eurachem2020.ro/>.

Published: 29 October 2020

Abstract: Analytical chemistry is experiencing dramatic, turbulent change beyond laboratory and laboratory management control. Technological innovations, staffing demographics, new business models, automation, industry consolidation, society, regulatory expectations, and other factors are transforming nearly every aspect of analytical chemistry. This course takes a strategic view of the laboratory system in the context of current quality management philosophies to determine options for achieving best practices. Experiences will be shared to provide insight into the obstacles and expected outcomes for the various approaches. Furthermore, this course includes the mission and function of the analytical enterprise, along with ways to improve the quality, performance, and evaluation of the laboratory for excellent benchmarking in giant industries.

Keywords: current quality management philosophies; achieving best practices; on-site/in-site systems

Publisher’s Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.



© 2020 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).