

SHORT BIOGRAPHY: Jacobus (Koos) F van Staden



Short Biography: Jacobus (Koos) F. van Staden, Director PATLAB has more than 40 years of experience (the majority in project management on international level) in research on process analytical and sensor technology and with various contributions to FIA, SIA, advanced Process systems with PAT with various sensors such as electrochemical, optical (chemiluminescence, fluorescence, Raman, AFM, UV/Vis, NIR) being recognized as pioneer (with various awards), groups still ranked among top research labs with third position in the world, more than 320 peer reviewed international publications; H-index of 31 (ISI WEB OF KNOWLEDGE, THOMSON REUTERS), without self citations, 2 books and numerous chapters in books, more that 425 presentations at conferences and serves in various positions in international scientific committees. He received a number of awards e.g. Sasol award and scholarship as student, Robertson award as excellent student, D F du Toit Malherbe-award for his research on FIA, the AECI Gold medal and the Eminent Academic Achievement from the University of Pretoria since 1995 etc., was one of the finalists of the NSTF SET awards for 2000, 2002 and 2003 and runner-up in 2001 (**Scientific Oscars at the Hilton, SABC TV Broadcast May 30, 2003 for Lifetime Achievers**), was the winner of the prestigious Havenga prize for Chemical Sciences of the South African Academy of Art and Science for 2000 and awarded the JAFIA Scientific Honor Award (Certificate and Medal) for his contribution to Advance of Modern Chemical Analyses as pioneer of Flow Injection Method by The Japanese Association for FIA and the Division of the Japanese Society for Analytical Chemistry in December 2003. He was involved in various projects with various process industries for example with SASOL, pharmaceutical companies, Be Beers, Element 6, Anglo American, Amplats, MINTEK, **National Water Research Commission** etc in RSA and international where he developed expertise with involvement in Process Intensification, Chemical, Electrochemical and Optical Sensors, Catalysis, Process Technologies, Catalytic Membrane (Bio)Reactors, Automotive Battery Research etc. and he served as **Project Technical Advisor in 13 projects** for the **European Commission** since 2009 where he was also involved as rapporteur, independent observer, evaluator and as technical scientific reviewer. **PATLAB, the Process Analytical Technology Laboratory in Bucharest, Romania** formed in 2007 - 2008 through the initiative of Koos van Staden after his successful application through the Capacity Program, gave him the possibility to buy essential modern research equipment in order to establish the laboratory of process analytical technology (PATLAB) as a **laboratory of excellence** in Bucharest, Romania with international standards recognized not only in Europe, but also among the worldwide scientific community. Currently Director of PATLAB in Romania, actively involved in Research as Senior Researcher 1 and coordinator of Different Projects, Professor with the Status (Supervisor) for PhD Graduates (Currently Supervisor for PhD-students at the Politechnica University of Timisoara and Politechnica University of Bucharest) and as MENTOR for Post Docs and in a number of international organizations. PATLAB already marked some breakthroughs in the EU e.g. **won numerous gold medals and special awards at International and National ProInvents and Innovations Exhibitions since 2009**. (See www.patlab.ro).