

## Presenters Biosketch:



**Dr. Robert Kaarls is member and Secretary of the International Committee for Weights and Measures - CIPM**, being the governing board over the Bureau International des Poids et Mesures - BIPM created by the Inter-Governmental Treaty of the “Metre Convention”. He is also the President of the Consultative Committee for Metrology in Chemistry – CCQM.

Formerly he has been Director of the National Metrology Institute of the Netherlands.

Robert Kaarls obtained his degrees in metrology, chemistry, electronics engineering and physics at the Delft Technical University. Robert has been a founding member of EUROMET (now EURAMET) and founding member and chairman and vice-chairman of the European Accreditation of Laboratories (EAL) and European Accreditation (EA). Robert Kaarls is also a founding member and has been the first chairman of EURACHEM. Equally he is a founding member of CITAC. As the Rapporteur of the CIPM working group on the statement of measurement uncertainty he wrote in 1980 the first document giving guidance to nowadays measurement uncertainty calculations and statements



**James Kerr is the Director of Science & Technology** at The Bureau of Standards Jamaica. The Science & Technology Division is primarily charged with undertaking analytical services for several high volume industries that require a range of tests on many diverse products including food, beverages, coffee, metals and non-metallic items. The work of this Division is carried out by the Chemistry, Microbiology, Furniture, and Non-Metallic & Packaging Departments. The Management Information Systems Department is also aligned to this division.