

INVITED LECTURE 3 [INVL3]



Title: "Chemical metrology – Progress in Greece"



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Abstract: The point of reference for any system that deals with the quality assurance of products and services is an established and accepted measurement system. EXHM/GCSL-EIM constitutes the pinnacle of the metrological pyramid in Greece and provides a link for the traceability of chemical measurements to the International System of Units (SI). EXHM is functioning under the aegis of the Hellenic Metrology Institute and has been flexibly accredited to ELOT EN ISO/IEC 17025 and ELOT ISO 17043, for calibration and testing, as well as a provider for interlaboratory comparisons. EXHM has recently applied for accreditation as a reference materials producer according to ISO 17034. This communication presents the activities of EXHM, namely: the provision of high fidelity metrological services that are internationally recognized, the realization of the measurement unit by means of traceable spectroscopic and spectrometric techniques, the design and production of reference materials, as well as the provision of interlaboratory comparisons for calibration and measurement laboratories that operate in the field of physical and chemical measurements in Greece with focus in food chemistry. EXHM activities support the national metrology infrastructure, promote the pertinent services on an international level and foster chemical metrology in Greece.



Elias Kakoulides is the Acting Head of the Chemical Metrology Service, which forms part of the General State Chemical Laboratory. He studied Chemical Engineering in NTU Athens, where he also obtained his Doctorate in Engineering. He also holds an MPhil in Polymeric Drug Delivery Systems and an MSc in Public Management. He has worked in the Greek chemical industry and in 2002 he joined the General State Chemical Laboratory. Since 2009 he has been working for EXHM/GCSL-EIM, the laboratory responsible for Metrology in Chemistry in Greece. He has participated in more than twenty comparisons on chemical metrology, most of which were on food matrix materials.