



Scientific Workshop in Connection with Eurachem General Assembly 2022

QUALITY ASSURANCE CHALLENGES OF MEASUREMENTS FROM FIELD TO LABORATORY WITH A FOCUS ON ISO/IEC 17025:2017 REQUIREMENTS

16-18 May 2022

Scientific Workshop Program

Online Event

Organized by Georgian Laboratory Association



Supporting organisations:



Scientific Workshop Program

16 May 2022 - Monday

Time	Lecture/Poster Title	Presenter
12:30 – 13:00 (GMT+4) 10:30 – 11:00 (CEST)	Entrance to the system/virtual conference room	
13:00 – 13:10 (GMT+4) 11:00 – 11:10 (CEST)	Opening remarks	Nino Manvelidze , Georgian Laboratory Association (GeLab)/ NTA of UNIDO-GQSP in Georgia Cong WU , Industrial Development Officer of UNIDO
Session 1. Session Chair: <i>Isabelle Vercruyse (Belgium)</i>		
13:10 – 13:25 (GMT+4) 11:10 – 11:25 (CEST)	Eurachem – a focus for analytical chemistry in Europe	Vicki Barwick (UK) , Eurachem Chair
13:25 – 13:50 (GMT+4) 11:25 – 11:50 (CEST)	Activities of the Eurachem Education and Training Working Group	David Milde (Czech Republic)
13:50 – 14:15 (GMT+4) 11:50 – 12:15 (CEST)	Revision of Eurachem Guides in relation to ISO/IEC 17025 - Developments in the revision of ISO 15189	Kyriacos Tsimillis , Sappho Michael (Cyprus)
14:15 – 14:45 (GMT+4) 12:15 – 12:45 (CEST)	LUNCH BREAK	
Session 2. Session Chair: <i>David Milde (Czech Republic)</i>		
14:45 – 15:10 (GMT+4) 12:45 – 13:10 (CEST)	Proficiency Testing (PT) – a tool to improve laboratory performance	Brian Brookman (UK)
15:10 – 15:30 (GMT+4) 13:10 – 13:30 (CEST)	Quality control activities in microbiological food testing including PT tests and the relevant interpretations	Turkan Abbasova (Azerbaijan)
15:30 – 15:45 (GMT+4) 13:30 – 13:45 (CEST)	POSTER SESSION	
	<u>Poster 01</u> . Total risk assessment in oil spill source identification using normalised methods requirements	Ana Catarina Rocha (Portugal)
	<u>Poster 02</u> . Sampling plan impact on the microbiological assessment of raw milk cheese	Sophi Meladze (Georgia)
	<u>Poster 03</u> . Sampling rules for the determination of organic compounds in water (drinking, underground and surface water)	Natalia Niniashvili (Georgia)
15:45 – 16:45 (GMT+4) 13:45 – 14:45 (CEST)	PARALLEL BREAKOUT SESSIONS	
	WG 1.1. Selection and use of certified reference materials	Marina Patriarca (Italy)
	WG 1.2. Proficiency Testing	Brian Brookman (UK)
16:45 – 16:50 (GMT+4) 14:45 – 14:50 (CEST)	SHORT BREAK	
16:50 – 17:10 (GMT+4) 14:50 – 15:10 (CEST)	Feedback from breakout sessions	
17:10 – 17:15 (GMT+4) 15:10 – 15:15 (CEST)	Closing of Day 1	

Scientific Workshop in Connection with Eurachem General Assembly 2022
**QUALITY ASSURANCE CHALLENGES OF MEASUREMENTS FROM FIELD TO LABORATORY WITH A
 FOCUS ON ISO/IEC 17025:2017 REQUIREMENTS**

17 May 2022 - Tuesday

Time	Lecture/Poster Title	Presenter
12:30 – 13:00 (GMT+4) 10:30 – 11:00 (CEST)	Entrance to the system/virtual conference room	
Session 3. Session Chair: Vicki Barwick (UK)		
13:00 – 13:25 (GMT+4) 11:00 – 11:25 (CEST)	Assessment of performance and uncertainty in qualitative chemical analysis: The Eurachem/CITAC Guide	Ricardo Bettencourt da Silva (Portugal)
13:25 – 13:50 (GMT+4) 11:25 – 11:50 (CEST)	Use of measurement uncertainty in compliance assessment	Stephen Ellison (UK)
13:50 – 14:15 (GMT+4) 11:50 – 12:15 (CEST)	Evaluating uncertainty for microbiological methods (approach in ISO 29201:2012 Water quality – The variability of test results and the uncertainty of measurement of microbiological enumeration methods)	Bertil Magnusson (Sweden)
14:15 – 14:40 (GMT+4) 12:15 – 12:40 (CEST)	Method validation - overview of accreditation requirements	Lorens Sibbesen (Denmark)
14:40 – 15:10 (GMT+4) 12:40 – 13:10 (CEST)	LUNCH BREAK	
Session 4. Session Chair: Tamar Sachaneli (Georgia)		
	POSTER SESSION	
15:10 – 15:25 (GMT+4) 13:10 – 13:25 (CEST)	Poster 04. Evaluation of the correlation of oceanic water parameters unmasked by representative sampling and sample analysis uncertainty	Carlos Borges (Portugal)
	Poster 05. Evaluation of the uncertainty of microplastics quantification in sediments: a bottom-up assessment	Vanessa Morgado (Portugal)
	Poster 06. Evaluation of measurement uncertainty by sampling on the example of determination of an active phosphorus compound in the soil in accordance with the requirements of ISO/IEC 17025:2017	Ketevan Jibladze (Georgia)
15:25 – 15:50 (GMT+4) 13:25 – 13:50 (CEST)	Planning method validation studies	Vicki Barwick (UK)
15:50 – 16:10 (GMT+4) 13:50 – 14:10 (CEST)	Validation and uncertainty estimation of HPLC method combined with ultrasound-assisted extraction procedure for quantitative determination of hesperidin obtained from citrus peel	Imeda Rubashvili (Georgia)
16:10 – 16:30 (GMT+4) 14:10 – 14:30 (CEST)	ISO/IEC 17025:2017 requirements for in-house methods and sampling errors during the validation process by GC-MS	Ani Grigoryan (Armenia)
16:30 – 16:50 (GMT+4) 14:30 – 14:50 (CEST)	From field to laboratory for scientific research (Challenges related to sampling and transportation)	Nikoloz Shakulashvili (Georgia)
16:50 – 16:55 (GMT+4) 14:50 – 14:55 (CEST)	Closing of Day 2	
16:55 – 17:10 (GMT+4) 14:55 – 15:10 (CEST)	How QuoData – Quality & Statistics improves your measurement processes (Sponsor of the Scientific Workshop)	
17:10 – 17:40 (GMT+4) 15:10 – 15:40 (CEST)	VIRTUAL NETWORKING SESSION (sponsored by QuoData GmbH)	

Scientific Workshop in Connection with Eurachem General Assembly 2022
**QUALITY ASSURANCE CHALLENGES OF MEASUREMENTS FROM FIELD TO LABORATORY WITH A
 FOCUS ON ISO/IEC 17025:2017 REQUIREMENTS**

18 May 2022 – Wednesday

Time	Lecture/Poster Title	Presenter
12:30 – 13:00 (GMT+4) 10:30 – 11:00 (CEST)	Entrance to the system/virtual conference room	
Session 5. Session Chair: Eugenia Totu (Romania)		
13:00 – 13:25 (GMT+4) 11:00 – 11:25 (CEST)	Evaluation of the measurement uncertainty based on in-house validation data	Ricardo Bettencourt da Silva (Portugal)
13:25 – 13:50 (GMT+4) 11:25 – 11:50 (CEST)	Overview of uncertainty from sampling	Mike Ramsey (UK)
13:50 – 14:10 (GMT+4) 11:50 – 12:10 (CEST)	Difficulties of sampling petroleum products in non-standard conditions	Teo Khuchua (Georgia)
14:10 – 14:30 (GMT+4) 12:10 – 12:30 (CEST)	Sampling technique of graphene oxide-based nano metal composites and their influence on pathogenic microorganisms	Giorgi Kvartskhava, Tamar Sachaneli (Georgia)
14:30 – 14:50 (GMT+4) 12:30 – 12:50 (CEST)	Impact of soil sampling on results of laboratory analysis	Giorgi Ghambashidze (Georgia)
14:50 – 15:20 (GMT+4) 12:50 – 13:20 (CEST)	LUNCH BREAK	
Session 6. Session Chair: Elina Bakradze (Georgia)		
POSTER SESSION		
15:20 – 15:40 (GMT+4) 13:20 – 13:40 (CEST)	<u>Poster 07.</u> Water sampling process at city of Batumi Chaisubani water supply headwork from surface sources and centralized water supply system, quality research and evaluation of results (from water supply source to customer)	Rusudan Tsintsadze (Georgia)
	<u>Poster 08.</u> Surface water and soil sampling for arsenic content determination	Sophio Khmiadashvili (Georgia)
	<u>Poster 09.</u> Impact of soil sampling on phosphorus determination results	Nino Shagidze (Georgia)
	<u>Poster 10.</u> Assuring the quality on field and laboratory measurements in the context of the risk-based approach of ISO17025:2017	Aristos Loucaides (Cyprus)
PARALLEL BREAKOUT SESSIONS		
15:40 – 16:40 (GMT+4) 13:40 – 14:40 (CEST)	WG 2.1. Uncertainty & compliance assessment	Stephen Ellison (UK), Bertil Magnusson (Sweden)
	WG 2.2. Validation of sampling procedures	Lorens Sibbesen (Denmark), Mike Ramsey (UK)
16:40 – 16:45 (GMT+4) 14:40 – 14:45 (CEST)	SHORT BREAK	
16:45 – 17:05 (GMT+4) 14:45 – 15:05 (CEST)	Feedback from breakout sessions	
17:05 – 17:20 (GMT+4) 15:05 – 15:20 (CEST)	Closing of Day 3 Closing of the Scientific Workshop	

POSTERS

Poster N	Poster Title	Country
01	Total risk assessment in oil spill source identification using normalised methods requirements Ana Catarina Rocha, Carla Palma, Ricardo J.N. Bettencourt da Silva Contact e-mail: catarina.rocha@hidrografico.pt	Portugal
02	Sampling plan impact on the microbiological assessment of raw milk cheese <u>Sophi Meladze</u> , Tamar Sachaneli Contact e-mail: sophi.meladze@gmail.com	Georgia
03	Sampling rules for the determination of organic compounds in water (drinking, underground and surface water) <u>Natalia Niniashvili</u> Contact e-mail: nniniashvili@gwp.ge	Georgia
04	Evaluation of the correlation of oceanic water parameters unmasked by representative sampling and sample analysis uncertainty <u>Carlos Borges</u> , Carla Palma, Ricardo Silva Contact e-mail: carlos.borges65@sapo.pt	Portugal
05	Evaluation of the uncertainty of microplastics quantification in sediments: a bottom up assessment <u>Vanessa Morgado</u> , Carla Palma, Ricardo Bettencourt da Silva Contact e-mail: vmorgado@fc.ul.pt	Portugal
06	Evaluation of measurement uncertainty by sampling on the example of determination of an active phosphorus compound in the soil In accordance with the requirements of ISO/IEC 17025:2017 <u>Ketevan Jibladze</u> Contact e-mail: ketevanjibladze56@gmail.com ; samebalab@gmail.com	Georgia
07	Water sampling process at city of Batumi Chaisubani water supply headwork from surface sources and centralized water supply system, quality research and evaluation of results (from water supply source to customer) Manana Grdzlishvili, Marina Lashkhauri, Ketevan Kiknadze, Nino Shubitidze, Nino Khevsuriani, Natia Odikadze, Ina Kavtaradze, <u>Rusudan Tsintsadze</u> Contact e-mail: manana_1956@yahoo.com	Georgia
08	Surface water and soil sampling for arsenic content determination <u>Sophio Khmiadashvili</u> , Nodar Poporadze, Marine Arabidze, Elina Bakradze, Gulchina Kuchava, Gela Sandodze, Lia Aptsiauri Contact e-mail: sofoars77@yahoo.com	Georgia

Scientific Workshop in Connection with Eurachem General Assembly 2022
**QUALITY ASSURANCE CHALLENGES OF MEASUREMENTS FROM FIELD TO LABORATORY WITH A
FOCUS ON ISO/IEC 17025:2017 REQUIREMENTS**

Poster N	Poster Title	Country
09	Impact of soil sampling on phosphorus determination results <u>Nino Shagidze</u> , Elene Sordia Contact e-mail: sordiaelene10@gtu.ge	Georgia
10	Assuring the quality on field and laboratory measurements in the context of the risk-based approach of ISO17025:2017 <u>Aristos Loucaides</u> , Christie Stylianou, Niki Wilkinson, Louisa Christodoulou Contact e-mail: info@arislabs.com	Cyprus