

The Quality System Task Force Report to the SIM General Assembly

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10 November 2023

SIM General Assembly,
Asunción, Paraguay



SIM

**SISTEMA
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SIM Quality System Task Force (QSTF)

- Delegated responsibility in the CIPM MRA for review of the quality management systems (QMSs) is given to the Regional Metrology Organizations (RMOs).
- This responsibility has been assigned by SIM Council to the SIM Quality System Task Force (QSTF) [SIM-09].
- QMS approval by SIM QSTF is required to support CMC claims, however since it is not limited to this purpose **any NMI/DI in the SIM region may present a QMS related to their measurement services for QSTF approval.**

SIM QSTF Responsibility and Membership

- Responsibility for reviewing and approving the quality management system(s) of any SIM member or associate upon request, including non-signatories of the MRA;
- Meetings are open to all SIM members and observers from other RMOs, and will provide the opportunity for discussion and comments;
- SIM QSTF decisions will be made by the representatives of the SIM signatories to the CIPM MRA;
- The QSTF will assess whether or not the quality management system of each Institute conforms with the requirements of the CIPM MRA;
- SIM QSTF approval is required prior to submission of new or revised CMC claims to the JCRB.

SIM 09: *SIM Procedure for Review of the Quality Management System of National Metrology Institutes and Designated Institutes*

QMS Requirements

- Reviewed at least every 5 years
- Peer Reviewed or Accredited to either ISO/IEC 17025 and/or ISO 17034
- Cover all declared CMCs

QSTF Considerations

- Is the QMS effective and compliant with the conformance standard(s) ?
- Is there confidence in the NMI's ability to deliver their declared CMCs?

Quality System Task Force Delegates

INTI, Argentina: Fernando Kornblit

IBMETRO, Bolivia: Daniela Aguilara

INMETRO, Brazil: Erlon Henrique Martins Ferreira

NRC, Canada: Isabelle Amen

CARICOM: Saira Knox

UDEC, Chile: Rodrigo Ramos Pardenas

INM, Colombia: Milena Rodriguez

LCM Lacomet, Costa Rica: Gabriel Molina Castro

INEN, Ecuador: Evelyn Fernanda Basantes Tipanta

BSJ, Jamaica: Sophia Lawrence

CENAM, Mexico: Alfredo Elias-Juarez

CENAMEP-AIP, Panama: Lourdes Gonzales

INTN, Paraguay: Maria Lourdes Valenzuela

INACAL, Peru: Edwin Guillen

NIST, USA: Carlos Beauchamp

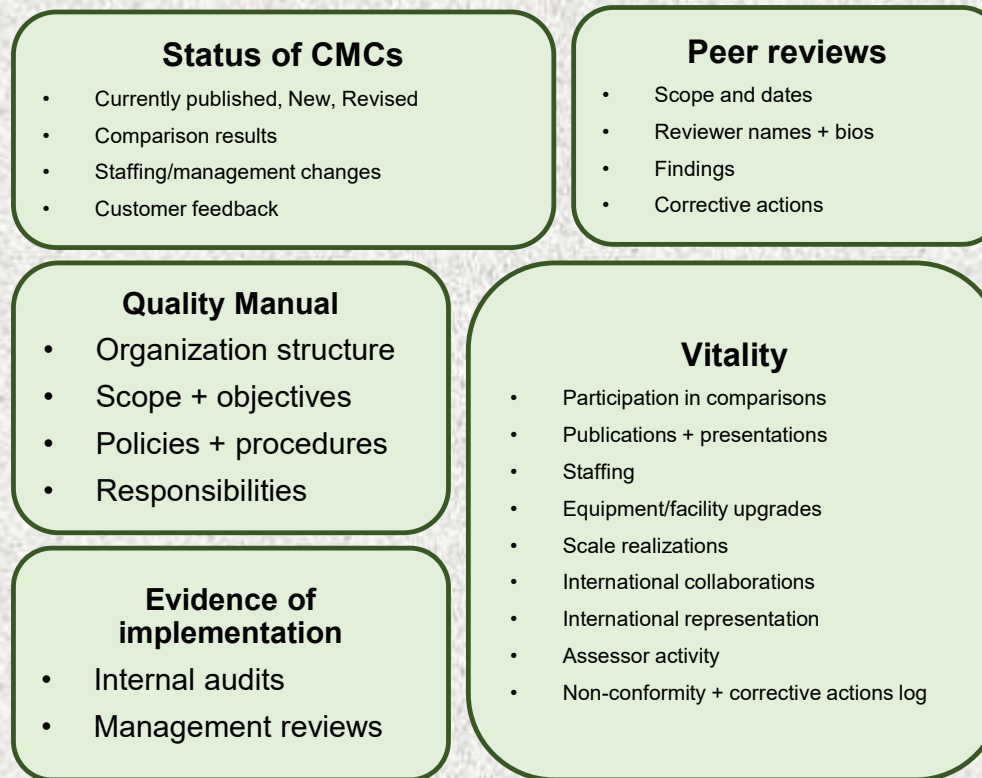
LATU, Uruguay: Elizabeth Ferreira

Chair: Sally Bruce, NIST USA

Secretary: Andrew Conn, NIST USA

Deputy Chair: Isabelle Amen, NRC Canada

Documents/Evidence required for a Successful Review by SIM QSTF



**Documentation is shared with the Voting members prior to the meeting to prepare for the Quality System reviews via a Cloud-based Document Management System (DMS)*

QSTF 2023: Pivot to Hybrid (@INM Columbia meetings) then In-person (@Paraguay); only 1 has been Remote this year: 6 more now in line for scheduling



Currently approved by SIM Council for the QSTF to operate in a virtual meeting mode when needed.



One benefit to the remote modality is to allow those delegates unable to travel to still meet the 5-year deadline.



JCRB Resolution 45/1: “The JCRB noted that the RMOs have progressed successfully with a mix of in-person, online and hybrid periodic reviews of quality management systems of the institutes in their regions. The JCRB encouraged the RMOs to further develop these review routes and keep to the 5-year review period. Exceptionally, where this is not possible, they may extend the validity of these QMSs subject to a case-by-case evaluation by the RMO concerned. This extension of validity shall be for a period not exceeding one year. .”



JCRB 46: The Resolution 45/1 stays into effect and is implemented as needed by the RMOs.

Hybrid QSTF: SIM Mid-year Meetings

Bogota, Columbia

25 & 26 May 2023

* NRC Canada presented remotely 2 weeks before on May 11, 2023 to reduce the high workload for the Bogota meeting

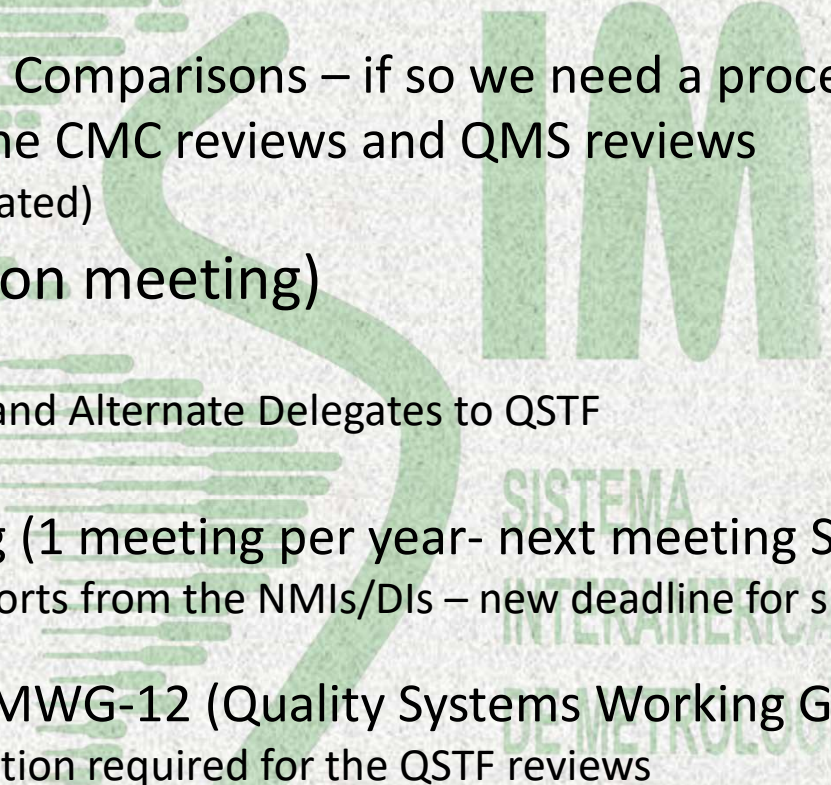

- Acoustics, Ultrasound and Vibration,
- Radioactivity
- Chemistry and Biology – Biological Fluids and Materials, Organic Solutions)

NMI	Country	CMC
INM	Columbia	Time & Frequency
INM	Columbia	Temperature & Humidity
INM	Columbia	pH & Electrolytic Conductivity
INM	Columbia	Torque
LATU	Uruguay	Mass & Density
LATU	Uruguay	Volume
LATU	Uruguay	Length
LATU	Uruguay	Pressure
CENAM	Mexico	Time & Frequency
ISP	Chile	Value Assignments for PT: Bacteria and Contaminants in Food
IBMETRO	Bolivia	CRMs: Metals in Water
LCM LACOMET	Costa Rica	Mass
LCM LACOMET	Costa Rica	Pressure
LCM LACOMET	Costa Rica	Volume
LMVE-ICE	Costa Rica	Electricity and Magnetism
ENAER	Chile	Pressure
ENAER	Chile	Humidity
INTI	Argentina	Organic and Inorganic Chemistry
INTI	Argentina	Bacterial Contaminants in Milk - Value Assignment for Proficiency Testing

In-person QSTF:
SIM Week Meetings
Asunción, Paraguay
6 & 7 November
2023

NMI	Country	CMC
LATU	Uruguay	Humidity
LATU	Uruguay	Temperature
IBMETRO	Bolivia	Flow
IBMETRO	Bolivia	Pressure
NRC	Canada	Pressure
NRC	Canada	Temperature & Humidity
NRC	Canada	Time & Frequency: Optical Frequency
INN	Mexico	Radioactivity and Dosimetry
CENAM	Mexico	Electricity and Magnetism
TTBS	Trinidad and Tobago	Mass
INM	Columbia	Mass
INM	Columbia	Pressure
LCM Lacomet	Costa Rica	Temperature
LCM Lacomet	Costa Rica	Humidity
DICTUC	Chile	Length
ISP	Chile	Value Assignment for PTs: Nutritional constituents and Contaminants in Water

SIM QSTF Work Meeting topics this past year

- Joint meeting with the SIM TC included Working Group Chairs (Bogota meeting)
 - Topics included possibility for Hybrid Comparisons – if so we need a procedure/process
 - Exchange of information regarding the CMC reviews and QMS reviews
 - Revised SIM D05 (TC and QSTF collaborated)
 - SIM QSTF Closed meeting (Ascension meeting)
 - Updating QSTF documentation
 - Defining responsibilities of QSTF Chair and Alternate Delegates to QSTF
 - Use of the New SharePoint Site
 - Outcomes from the JCRB 47 Meeting (1 meeting per year- next meeting Sept 2024)
 - New format for the Annual Quality Reports from the NMIs/DIs – new deadline for submission (30 June)
 - Planning for Training hosted by SIM MWG-12 (Quality Systems Working Group)
 - Procedures, Processes, and Documentation required for the QSTF reviews
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SIM QSTF

Ensuring efficient and effective review of the quality management systems implemented by the NMIs/DIs within SIM to ensure conformance with the expectations of the CIPM MRA and to serve other quality management system approval needs of SIM NMIs.





The wrap-up

SIM QSTF serves to:

- Support the acceptance of measurement results performed by the National metrology institutes and Designated Institutes throughout the Americas & Caribbean.
- Ensure metrological traceability and measurement quality.
- Provide assurance to the international quality infrastructure.

QSTF Chair: Sally Bruce, NIST

QSTF Deputy Chair: Isabelle Amen, NRC

QSTF Secretariat: Andrew Conn, NIST

(Rica)



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To the delegates of the SIM QSTF, much appreciation for your dedicated work:

Thanks, Gracias, Merci, Obrigado

We welcome Observers and Representatives of Designated Institutes

<https://sim-metrologia.org/about-us/structure/quality-system-task-force-qstf/>



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