

January 23 – 24, 2017
The Florida Hotel & Conference Center | Orlando, Florida

TE-11 | Monday, January 23 | 1:00 AM - 5:00 PM | ½ Day PM

Course Title: Humidity Calibration Uncertainty

Instructor: Dr. Cesar “Jun” Bautista, Masy BioServices

Course Description:

This presentation will touch upon chamber calibration related topics with special emphasis on humidity chambers in terms of the most recent updates, proposed changes, recommended practices, and compliance to the mandates and conformance to established local and international standards and guidelines. Highlighted during this presentation will be the measurement uncertainties that may necessarily be considered when calibrating climatic chambers. I will also be demonstrating the concept of 0% RH as a reference (not a measurement) point and the rationale behind its usage. As a bonus, we will be exhibiting new concepts in climatic chamber design and manufacturing that support the measurement uncertainty elements in climatic chamber calibrations.

Learning Objectives:

- Climatic Chambers (Humidity Chambers) Design Concepts, 2 Pressure Generator vs. Vapor Mixing
- Calibration Methods
- Measurement Uncertainties in the Calibration and Certification of Humidity Chambers
- Future Look and Features of Humidity Chambers and the Market Demands and Challenges

Instructor Biography

Presenter: Dr. Cesar “Jun” Bautista has over 35 years of combined experience in metrology, 16 years of which are Biotech, Bio-Pharmaceutical, and Biomedical Device related. He has over 20 years of USAF PMEL experience, 6 years of combined experience as Sr. Director of Operations & Corporate Metrology, Regional Manager and Senior Vice-President of several third party calibration companies, one of which he co-founded. Jun, is currently the Sr. Director, of Laboratory Operations for Masy BioServices, one of the East Coast’s premier metrology services provider. Jun Bautista holds a B.S. Management Engineering, M.A. Public Administration, M.S. Systems Management, MBA from Harvard Business School and a Ph.D. in Biomedical Physics from the Massachusetts Institute of Technology. He also has A.A. degrees in Applied Electronics Engineering Technology and Post-Secondary Instructional Systems Development. He is affiliated with NCSL International, MSC, ASQ, and a member of the Panel of Experts for USP 41 and ASTM E 20, E60, and E56 committees. Dr. Bautista’s Post-doctoral research at MIT centers on the development of nano-metrology for use in the concepts and design engineering of smart plants and digital facilities for the manufacturing of bio-pharmaceutical products and biomedical devices, nano medicine, nano drug delivery systems advanced material products. He is one of the country’s leading pioneers in the use of the nano bubble procedure and the cellular level infusion of precious nano metal particles infused used for oncology applications and for the specific treatment of Glioblastoma Multiforme.