



Women in Metrology (WIM) FIRST FORUM 8-9 MARCH 2022

We warmly welcome you to Women in Metrology (WIM) which is taking place as a virtual event.

Metrology For All platform, The Coordinate Metrology Society's Women in Metrology committee, and other partners around the world including Amotech Africa, Fluke Corporation, IEEE Instrumentation, and Measurement Society, and PTB are organizing the First Forum of Women in Metrology in 8-9 March 2022, to coincide with International Women's Day in this two-day live forum celebrating International Women in Tech Day. This free online event, which kicks off on March 8, supports the development of a thriving metrology community of women scientists and engineers and promotes skills development for women interested in a career in metrology. It is our hope and intention that the example of these thought leaders will show girls and women with an interest in metrology that they can reach the very top of the field.

Our gratitude and praise go to all of the speakers, who agreed to participate.

Thanks also extended to our partners. Many Thanks to **Mike Richman** for handling everything linked to the website and forum digital platform.

Organizers and Partners:

- Metrology for All
- Coordinate Metrology Society CMS / the Education and Women in Metrology Committees.
- Fluke Corporation
- Amotech Africa.
- PTB
- IEEE Instrumentation and Measurement Society.

Organizer Committee

1. Tamador Salih Saeed / "Metrology for All" platform Founder
2. Eng. Amy Gritzinger/ Technical Support Engineer at Hexagon Manufacturing Intelligence./ CMS

3. Justin Novak /Metrology Solutions Manager Continuous Improvement, Quality, Training. /CMS.
4. Mike Richman /Principal Richman Business Media Consulting /CMS.
5. Eng. Ahed Abedrabuh, Sales Manager Routine Maintenance Middle East, Africa Russia / CIS/Fluke.
6. Catherine Mwangi, Marketing and Training Manager/ Amotech Africa
7. Rieke Koriath / Project Coordinator /Sub-Saharan Africa PTB.
8. Bruno Ando', PhD Associate Professor in Sensors and Measurement science
DIEEI - University of Catania, Italy IEEE Senior Member EIC IEEE I&M Magazine/AE
IEEE Trans. Instrumentation and Measurement.
9. Ferdinanda Ponci /RWTH Aachen University/Germany/ Women in Instrumentation & Measurement.

Program

First Day Tuesday 8 March 2022

Presentations for 2 hours 5:00- 7:00 pm(GMT+3):

**Session chair: Eng. Amy Gritzinger/ Technical Support Engineer at
Hexagon Manufacturing Intelligence.**

Presenters:

- | | | |
|----|--------------------------|----------|
| 1. | Joseline NFONO | Gabon. |
| 2. | Eng. Souâd BOUAZIZ | Tunisia. |
| 3. | Prof. Hala Abd El-Megeed | Egypt |
| 4. | Dr. Judy Amanor-Boadu | USA |
| 5. | Amanda Lewis | USA |
| 6. | Ghufran Abedalnabi | Fluke |

Second Day Wednesday 9 March 2022

Session 1: 05:00 -7:00 pm (GMT+3)

Poster presentations from women studying metrology

Session chair: Beth Wanjiku, Lab and Calibration Manager, Amotech Africa.

Participants:

1. Eng. Kwther Adam Adam Mohamm Sudan.
2. Eng. Eman Mohamed Hosny Kamel Egypt
3. Eng. Rehab Sherif Salah Eldeen Egypt
4. Eng. Samah Abd ELtawab Mohamed Khalifa Egypt
5. Soumaya Chaieb Tunisia

Session 2: 07:00 -08:30 pm (GMT+3) Women in Metrology (WIM) Panel Discussion

Panel discussion considering how to increase the educational opportunities and general awareness of metrology among women

Session chair: Dr. Kristen M. Donnell/ Associate Professor/ Missouri University of Science and Technology. USA

Panelists:

1. Jasmine Wilch NNS/UAS
2. Shannon Gregor CNC Retrofit Enthusiast at MachMotion | Metrology Advocate, USA
3. Grace Ateak / Kenya Bureau of Standards (KEBS).
4. Dr. Melanie Ooi, / University of Waikato Hamilton, New Zealand.
5. Dr. Alison Cleary/ SSE plc, Scotland.
6. Catherine Wanjagi , Marketing and Training Manager at Amotech Africa



Tamador Salih Saeed | Organizing Committee General Chair

Tamador is the founder of the "Metrology for All" platform. She is currently a Ph.D. candidate in physics from the University of Khartoum, Sudan, on the topic "Accurate Calibration and Measurements of Electrical Quantities.", holds a bachelor's degree, and a master's degree in Physics from the University of Khartoum, Sudan. Tamador was a teaching assistant at Bayan College for Science and Technology from 2003-2008, a lecturer at the Khartoum College for Medical Sciences from 2007-2010, a lecturer at the Center for Standardization Science, SSMO, from 2012-2014, physicist at Measurement and Calibration laboratories, SSMO, Sudan from 2010-2021, and head of the Electrical Measurements Laboratory, Measurement and Calibration laboratories, SSMO, in 2014. She also won the Innovative Research Award at the 25th anniversary of OWSD, SWSO, in 2018. www.metrologyforall.com



Mike Richman

Mr. Mike Richman: Moderator/Host, Coordinate Metrology Society
Mike is the moderator and host for this special event



Coordinate Metrology Society CMS / the Education and Women in Metrology Committees

CMSC



First Forum 8-9 March 2022

Program session 1 Tuesday 8 March 2022/ 05:00- 07:00 pm (GMT+3)

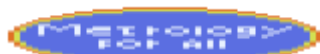
Name	Time
Session Chair Eng. Amy Gritzinger and Mr. Mike Richman : Welcome and opening session	05:00 - 05:05
Eng. Souâd BOUAZIZ /Tunisia.	05:05 - 05:20
Dr. Judy Amanor-Boadu / USA	05:20-05:35
Prof. Hala Abd El-Megeed/ Egypt	05:35-05:50
Amanda Lewis/ USA	05:50-06:05
Ghufran Abedalnabi / Fluke	06:05 - 06:20
Joseline NFONO /Gabon	06:20- 06:35
Discussion	06:35 - 0700

Program session 2 Wednesday 9 March 2022/ 05:00- 07:00 pm (GMT+3)

Name	Time
Session Chair Beth Wanjiku / Kenya /welcome and opening Session	05:00 - 05:05
Ghufran Abedalnabi /UAE Fluke	05:05 - 05:17
Joseline NFONO /Gabon	05:17 – 05:29
Eng. Eman Mohamed Hosny Kamel /Egypt	05:29- 05:41
Eng. Kwther Adam Adam Mohamm Sudan	05:41- 05:53
Eng. Rehab Sherif Salah Eldeen/ Egypt	05:53- 06:05
Soumaya Chaieb/ Tunisia	06:05- 06:17
Eng. Samah Abd ELtawab Mohamed Khalifa/ Egypt	06:17 - 06:29
Discussion	06:29 – 06:50

Program session 3 Wednesday 9 March 2022/ 07:00 - 08:30 pm (GMT+3)

Name	Time
Session chair: Dr. Kristen M. Donnell /Welcome and opening session	07:00 - 07:05
Jasmine Wilch / NNS	07:05 - 07:15
Dr. Melanie Ooi /New Zealand.	07:15 - 07:25
Shannon Gregor /USA	07:25- 07:35
Grace Ateak /Kenya	07:35- 07:45
Dr. Alison Cleary/ SSE plc, Scotland.	07:45 - 07:55
Catherine Wanjagi /Kenya	07:55 - 08:05
Discussion	08:05 – 08:30





INTERNATIONAL WOMEN IN TECH DAY

March 8th- March 9th 2022

Women in Metrology (WIM)
FIRST FORUM
Panel Discussion
Register at
<https://tinyurl.com/2p8ehn24>

Day 1
Tuesday 8 March 2022
5:00- 7:00 pm (GMT+3)
Amy Gritzinger
Dr. Judy Amanor-Boadu
Mrs. Nfona Engahang-Jaseline
Prof. Hala Abd El-Mageed
Amanda Lewis
Eng. Souad Bouaziz
Ghufraan Abedalnabi



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Day2 - Session 2
Wednesday 9 March 2022
5:00- 7:00 pm (GMT+3)
Poster presentations from women
studying metrology

Beth Wanjiku
Eng. Kwther Adam Adam
Mohammed
Eng Rehab Sherif Salah Eldeen
Eman Mohamed Hosny
Samah Abdeltawab Mohamed
Soumaya Chaieb



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Dr. Kristen M. Donnell
Jasmine Wilch
Dr. Melanie Ooi
Shannon Gregor
Dr. Allison Cleary
Catherine Wanjagi
Grace Anunda Ateka





Dr. Judy Amanor-Boadu

Judy is an electrical engineer with more than ten years of experience in the semiconductor, PC, and battery-charging industries. She currently holds the position of staff analog engineer at Intel Corp., where she focuses on power delivery modeling and characterization of Intel Xeon CPU processors for data-center products. She also provides implementation guidelines, performs feasibility studies, and design verification of current and future generations of Xeon processors. She received the 2020 IEEE IMS J. Barry Oakes advancement award for her technical contributions and mentorship and currently serves as 2022 IEEE young professionals' program representative. She holds a bachelor's degree from Kwame Nkrumah University of Science and Technology, Ghana, and a master's degree and Ph.D. in electrical engineering from Texas A&M University, College Station, Texas.



Eng. Souâd BOUAZIZ

Souad is the head of the Arab Program for Scientific and Industrial Metrology (ARMET), ADIMO and the director of legal metrology at the National Metrology Agency, Tunisia. She is an electrical engineer specialist in metrology and measurement systems as well as a general engineer and director at the National Metrology Agency at the Ministry of Trade and Export Development.



Prof. Hala Abd El-Megeed

Hala is a professor at the National Institute of Standards (NIS) in Giza, Egypt where she is the head of the High Voltage Department and Proficiency Testing Lab. She received her M.Sc. and Ph.D. degrees in electrical power and machines from the faculty of engineering, Cairo University, Egypt in 2004 and 2010, respectively. Her areas of expertise are electrical measurements, electrical metrology, renewable energy, and green energy.



Amanda Lewis

Amanda is technical support specialist at Hexagon Manufacturing Intelligence.



Nfono Engohang Joseline

Nfono is a CEMAC trainer in metrology and the ISO 17025 standard. Director of metrology in Gabon and founder of NGO 3M (Industrial, legal and scientific metrology) for all.



Ghufraan Abed Al Nabi

Ghufraan is an energetic and talented business development manager with Fluke Corp. She is a highly motivated team player who consistently aims to push revenue expectations and exceed goals with superb communication skills and the ability to build up rapport easily. She is pragmatic and results-oriented, with a focus on bottom-line results and a track record of achieving and exceeding the highest standards of performance.



Eng. Amy Gritzinger

As an accomplished application engineer and technical support engineer with Hexagon Manufacturing Intelligence, Amy has more than 25 years in the metrology industry. Her impact and responsibilities includes providing solutions for high-profile technical escalations and knowledge transfers to management. She is a member of the Education and Women in Metrology committees of the Coordinate Metrology Society, with a focus on early STEM education, career pathways into metrology, and generating interest through social media content in an effort to close the skills gap. Amy is also a participant in the Metrology for All volunteer network, which works to increase awareness of metrology with a main purpose of supporting Women in Metrology in Africa and developing countries. She is also a member of the Society of Women Engineers (SWE) promoting equality, diversity, and inclusion for women in the engineering industry through outreach, scholarships, community, and awareness campaigns; a participating mentor in the Women's Mentorship Pilot Program cultivating an environment fostering gender-balanced leadership positions; and the founder and content manager of blog Every Women in Tech, dedicated to women in STEM.



Eng. Beth Wanjiku

Beth is the lab and calibration manager at Amotech Africa. She is passionate about metrology and mechanical engineering and has always loved playing around with tools and equipment. That's how she found herself studying to become a mechanical engineer. In her free time, she engages in mentoring children and young ladies. She holds a bachelor's degree in Mechanical Engineering.



Soumaya Chaieb

Soumaya is the head deputy of the National Laboratory of Metrology, Tunisia, in chemistry.

Head deputy of the National Laboratory of Metrology in chemistry;

- Vice chairperson AFRIMETS TC-QS ISO 17034- 17043;
- Principal technician in Inorganic Analysis;



Eng. Rehab Sherif Salah Eldeen

Rehab is an electrical engineer and research assistant with experience in high-voltage instrument calibration as well as power and energy calibration. She holds a bachelor's degree from the engineering faculty with honors (first class degree) and a master's degree in electrical engineering from the University of Al-Azhar in Cairo, Egypt. She currently works in a high-voltage laboratory at the National Institute of Standards and has a good understanding of power and energy measurements and also high-voltage instrument calibration. She possesses good experience in teaching the undergraduate subjects in electrical engineering as well as the implementation of quality tools, also in the creation of technical standard operating procedures and the scientific translation of international standards to Arabic.



Eng. Samah AbdEltawab Mohamed

Samah is an electrical engineer and holds a master's degree in engineering science within the Electrical Engineering Department, Faculty of Engineering, at Fayoum University, Faiyum, Egypt, on the topic "Improvement of Photovoltaic Electrical Energy Measurements by Improving the Mathematical Modeling Algorithm and its Application." She has been employed at the National Institute of Standards in the High Voltage Lab, as a research assistant and calibration engineer from 2015 to 2020 and as an assistant researcher and calibration engineer starting in 2021.



Eng. Kwther Adam Mohammed

Kwther is a biomedical engineer and a current Ph.D. candidate in biomedical engineer from the University of Sudan of Science and Technology (SUST). Her topic is "The effect of temperature on the verification of infusion pumps." She also holds an M.Sc. in biomedical engineering, an MBA from the University of Garden City of Science and Technology, and a B.Sc. (Honors) in biomedical engineering from SUST. Her professional experience includes positions as a clinical engineer at Khartoum teaching hospital and biomedical engineer at SAMASU medical and education services. For the past six years, she has been employed at the Sudanese Standards and Metrology Organization (SSMO) in the unit of calibration labs, as a measurement and calibration engineer.



Eng. Eman Mohamed Hosny

Eman is an electrical engineer and currently holds an M. Sc in engineering science within the Electrical Engineering Department, Faculty of Engineering, Al-azhar University in Cairo, Egypt, on the topic "Solar Radiation Effect on Smart Electricity Meters Accuracy at Different Climatic Environments and Various Electrical Loads." She has been employed at National Institute of Standards in the High Voltage Lab as a research assistant and calibration engineer for the past six years.



Dr. Kristen Donnell

Kristen holds a Ph.D. from Missouri University of Science and Technology (Missouri S&T) in electrical engineering (Dec. 2010). Her dissertation was titled, "Development of Embedded Modulated Scatterer Technique: Single- and Dual-Loaded Scatterers." She also holds a master's degree in electrical engineering from the University of Missouri–Rolla (Aug. 2003). Her thesis was titled "Microwave Reflection Properties of Mortar Exposed to Chloride Solutions: Measurements and Modeling." She also holds a bachelor's degree in electrical engineering from Colorado State University (May 2001).



Jasmine Wilch

Jasmine is a metrology engineer for Newport News Shipbuilding.



Dr. Alison Cleary

Alison is responsible for system planning and investment at SSE plc



Dr. Melanie Ooi

Melanie has developed new testing techniques and test data processing methodologies that have been adopted by multinational companies such as Texas Instruments, Freescale Semiconductor (now NXP), and Western Digital. In recent years she has also successfully researched new measurement uncertainty evaluation approaches and frameworks with application to a multitude of science and technology areas (medical research, structural design, mechanical systems modelling, etc.) Her work in measurement uncertainty propagation has been adopted by the South African National Accreditation System (national body responsible for conformity assessment) in their guidelines document TG 50-02 since Oct. 2017. She has been acknowledged by several awards including the 2019 Rutherford Discovery Fellowship from New Zealand's Royal Society Te Apārangi, 2017 Mike Sargeant Career Achievement Award from Institution of Engineering and Technology U.K., Outstanding Young Engineer Award of the Year 2014 from the IEEE Instrumentation and Measurement Society, 2014 Excellence Award from the International Education Association of Australia, 2011 Citation for Outstanding Contributions to Student Learning from the Australian Learning and Teaching Council. She is the youngest female Fellow appointed to the Institution of Engineering and Technology, and is a U.K. Chartered Engineer. Melanie is a Senior Member of the IEEE, a guest editor for the IEEE Transactions in Instrumentation and Measurement, an Administrative Committee Member of the IEEE Instrumentation & Measurement Society (I&MS) as well as Secretary and Member of the Technical Committee on Fault Tolerant Measurement Systems (TC-32) of the IEEE I&MS.



Grace Anunda Ateka

Grace is currently working with the Kenya Bureau of Standards as the head of DC Laboratory and LF Laboratory. Before moving to DC and LF, she worked as a metrology officer at the Secondary Standards Dosimetry Laboratory. She has a bachelor's degree from the University of Nairobi, an MBA, and is currently pursuing an MSC in nuclear science from the University of Nairobi. Before joining KEBS, she worked as a technical manager at Achelis Kenya Limited. She has also had a chance to take leadership opportunities in different capacities. In 2017, she was elected as the Secretary General of Eastern Africa Association of Radiation Protection. She is a founding member and the treasurer of Women in Nuclear

Association, Kenya Chapter. Apart from that she is an active member of the Eastern Africa Network for Women in Basic Science, a network that mentors young women in the field of science.



Shannon Gregor

Shannon is a CNC retrofit enthusiast and metrology advocate at MachMotion.



Catherine Wanjagi

Catherine is a marketing and communications expert. Currently she heads the marketing and training departments at Amotech Africa, a leading test and measurement solution provider in the continent. Catherine loves to meet new people and connect people with an aim of providing solutions. She holds an MBA in marketing and a postgraduate diploma in marketing (CIM) and loves to work with children and young people guiding them to unlock their full potential

Many thanks to our Partners.



Thanks to PTB for his cooperation in this event and for sharing in their network.