AIMS | African Institute for Mathematical Sciences CAMEROON

AIMS CAMEROON

NEWSLETTER

Celebrating Quantum Possibilities, AIMS Cameroon Marks World Quantum Day 2025

AIMS Cameroon joined the global celebration of World Quantum Day 2025 under the theme "Africa's Quantum Future: Opportunities, Challenges, and Strategies." The event featured a dynamic lineup of online guest speakers, including Prof. Ferdinand Evers, who set the stage with a powerful message on Africa's potential in quantum innovation. He was followed by Dr. Obinah Abah, who explored the latest advancements in quantum research, and Mr. Chinonso Omah, who shared practical guidance on how young African scientists can pursue careers in the field.

The day continued with a roundtable discussion on career opportunities in quantum science, where Scholars engaged with panellists on strategies for building a strong African presence in the global quantum space. The event concluded with a shared vision: that Africa must not only participate in the quantum revolution but take an active role in shaping it. Through education, mentorship, and investment in local research, AIMS Cameroon is committed to preparing the next generation of quantum leaders.

Empowering Educators: Cluster Leads Training Boosts Math Teaching in Bamenda

From March 27 to 29, 2025, AIMS Cameroon conducted a dynamic Cluster Leads Training in Bamenda, bringing together 30 mathematics teachers for three days of impactful professional development. The training aimed to strengthen math education by equipping teachers with innovative teaching methodologies, leadership skills, and collaborative strategies to support peer learning within their schools and clusters. Participants engaged in interactive sessions, explored practical classroom techniques, and shared experiences on overcoming challenges in math instruction. By the end of the workshop, teachers left inspired and better prepared to lead change in their communities, championing mathematics education and nurturing the next generation of problem solvers.

Motivation Quote: "Education is not the learning of facts, but the training of the mind to think" - Albert Einstein.

Albert Einstein emphasizes that true education goes beyond simply memorizing information. Instead, it focuses on developing the ability to think critically, solve problems, and understand concepts deeply.

AIMS Cameroon Shines at IndabaX Cameroon in Douala, Sparking a Journey of Innovation and Mental Wellness

In the vibrant hub of Douala, where innovation drives every interaction, members of AIMS Cameroon's current cohort and alumni played an active role in this year's IndabaX Cameroon, not only participating but also contributing to the organization of the event, embodying the spirit and promise of Africa's scientific future.

IndabaX Cameroon, first held in 2019, is part of the larger Deep Learning Indaba movement, an Africa-wide community that champions advancements in technology and artificial intelligence. With a vision of building communities, nurturing leadership, and recognising excellence across the continent, the Indaba has become a crucial platform for knowledge sharing and network-building in the AI and machine learning space. The Cameroonian chapter alone has attracted over 100 applicants in its first edition and continues to grow as a hub of talent and ideas.

At this year's edition in Douala, AIMS Cameroon Scholars immersed themselves in deep discussions around AI applications, ethical tech, and research innovation, standing shoulder to shoulder with experts, entrepreneurs, and fellow learners from across the country. One of the AIMS-Cameroon students, Mohamed Abdounour Mouliom Pagna, did a presentation on Agri-Connect: Transforming farming through smart Sensing and Analytics.

From Lectures to Legacy, AIMS Cameroon Students Enter Essay Phase

After months of rigorous coursework, late-night problem sets, and collaborative learning, AIMS Cameroon students have officially wrapped up their academic classes, closing one chapter and stepping boldly into the next: the essay phase.

Up to May 28, 2025, students will channel everything they've learned into research essays tackling real-world problems with mathematical precision, innovation, and a uniquely African perspective. It's a time of deep focus, critical thinking, and independent exploration, supported by lecturers, mentors and the AIMS academic team. The essay phase isn't just about writing, it's about transformation, it's where students go from mastering knowledge to generating it.

Whether diving into data science, modelling climate change, or exploring AI solutions for local challenges, each student is crafting a piece of work that reflects not just their skills, but their values and vision for Africa's future.

To our brilliant Scholars: your journey continues, and we can't wait to see where your ideas lead.

WEEKLY TALKS

Between April 2 and April 8, 2025, AIMS Cameroon hosted a dynamic week of academic exploration, featuring Scholars, faculty, and guest experts sharing impactful research across health, technology, and innovation. On April 2, Gabriel Asare Williams opened with a compelling talk on Weibull regression for leukaemia survival analysis, showing how statistical models can inform clinical decisions. Later that day, Abibou Moustapha MOTAPON Ndam explored the transformative power of Shor's Algorithm in quantum computing, highlighting its cryptographic potential despite current hardware constraints.

Teslim Adedeji contributed a nuanced analysis of breast cancer survival using Kaplan-Meier and Cox regression models, identifying tumour stage as a key predictor. Tackling maternal health, Sorelle Emade Elone used predictive modelling to spotlight regional disparities in maternal mortality, advocating for data-driven healthcare reform. On April 8, Prof. Cecil Ouma delivered a comprehensive overview of the AIMS Doctoral Training Program (DTP), which since 2019 has supported 61 PhD candidates in areas like Climate Science and Quantum Science.

Prof. Ouma emphasised the DTP's blend of advanced coursework, including machine learning and large language models and real-world research, backed by global partnerships with DeepMind, IBM, and top universities. The program's 36-month fellowship, supported by institutions like the Gates Foundation and NIH, equips graduates with tools for academic excellence and societal impact.

Capping the week on April 30, Joris Bekkers, co-founder of PySport, delivered a highly engaging online lecture on Football Analytics, using Cameroon's 2022 World Cup performance as a case study. He introduced open-source tools developed from his research on graph neural networks and pressing intensity, offering practical insight into sports analytics using public data. Drawing from his experience with AFC Bournemouth and the U.S. Soccer Federation, Joris demonstrated how data-driven methods are transforming modern football analysis.

The event series showcased AIMS Cameroon's commitment to research excellence and Africa-driven solutions, bridging scientific theory with real-world relevance. It was a week that empowered Scholars to push boundaries, elevate African voices in STEM, and position themselves as the continent's next generation of scientific leaders.