

Enhancing Public Awareness on the Role and Importance of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) and the RN52 Radionuclide Monitoring Station in the Philippines

Chitho P. Feliciano, Ph.D. ^{1,2} and Antonio C. Bonga III ^{1,2}

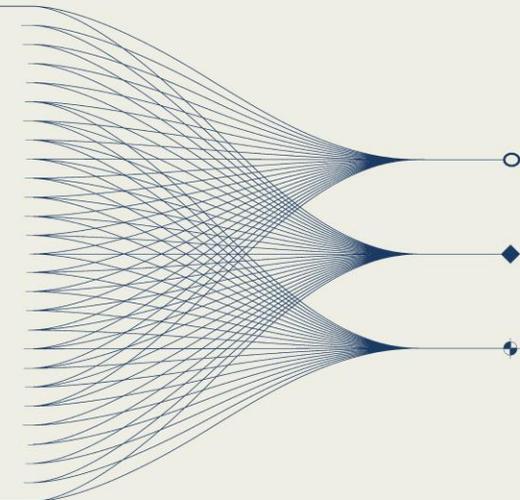
¹Health Physics Research Section, Department of Science and Technology-Philippine Nuclear Research Institute (DOST-PNRI), Republic of the Philippines

²Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) RN52 Station, Tanay, Rizal, Philippines



INTRODUCTION AND MAIN RESULTS

This presentation demonstrate the integrated methodology combined technical training, outreach events, diplomatic visibility, mass media coverage, and legislative engagement to build sustained public awareness of the CTBTO and its role in ensuring nuclear test-ban verification and radiological safety in the Philippines.



Chitho P. Feliciano, Ph.D. ^{1,2} and Antonio C. Bonga III ^{1,2}

¹DOST-Philippine Nuclear Research Institute; ²CTBTO RN52 Station, Tanay, Rizal, Philippines

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Introduction

The Department of Science and Technology – Philippine Nuclear Research Institute (DOST-PNRI), through its Health Physics Research Section (HPRS), has undertaken sustained efforts to strengthen national technical capabilities in environmental radioactivity monitoring and to promote public awareness of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) verification regime. These initiatives ensure that local radiation monitoring activities complement the International Monitoring System (IMS) and reinforce the Philippines’ role in nuclear test-ban verification and radiological safety. This integrated methodology combined technical training, outreach events, diplomatic visibility, mass media coverage, & legislative engagement to build sustained public awareness of the CTBTO and its role in ensuring nuclear test-ban verification & radiological safety.



DOST-PNRI Career Scientist Dr. Chitho Feliciano explains the CTBTO RN52 IMS Station & the establishment & operation of several radiation monitoring stations in the Philippines during the final day of the HANANDA Pilipinas (Prepared Philippines) 2023 Exposition.

Methodology

Technical Capacity Development (2017–2025): Conducted joint PNRI–Japan Atomic Energy Agency (JAEA) National Training Courses to develop technical expertise in radionuclide monitoring, radiological dose assessment, & public risk communication. Ensured that personnel competencies aligned with CTBTO & IAEA guidelines to maintain high-quality environmental monitoring and verification support.

National Exhibitions & Outreach Activities (2023-2025): Participated in *HANANDA Pilipinas* (Prepared Philippines) expositions across the country & national legislative venues to showcase real-time environmental radiation monitoring systems. Delivered plenary presentations, technical demonstrations, and interactive exhibits to explain the connection between local monitoring networks & CTBT verification efforts.

High-Level Diplomatic Engagement: Hosted the visit of Ambassador Ms. Evangelina Lourdes A. Bernas & CTBTO Executive Secretary Dr. Robert Flyod to IMS Radionuclide Station RN52 to emphasize the Philippines’ active role in CTBT verification & peaceful nuclear applications. Conducted on-site briefings for senior government officials to illustrate how national monitoring infrastructure complements the global IMS network.

Media & Public Communication Campaigns: Featured environmental radioactivity monitoring initiatives in television interviews (DOSTv) and science radio programs (Radyo Siyensya) to reach wider public audiences. Provided clear, non-technical explanations of the CTBTO’s role, emphasizing how verification measures protect both national security & public safety.

Results and Conclusions

- 1. Strengthened technical & public outreach capacity:** PNRI’s training and communication programs aligned with CTBTO and IAEA standards for radionuclide monitoring & dose assessment.
- 2. Raised awareness and policy support:** Engagements with legislators, media, and national expositions highlighted IMS station RN52 and secured broader backing for environmental radioactivity monitoring.
- 3. Enhanced CTBT verification role:** national monitoring networks now complement IMS data, improving both treaty verification confidence and public radiological safety.



PNRI & JAEA Lecturers together with the participants of the 2025 National Training Course on Environmental Radioactivity Monitoring proudly shows their certificate of participation.