

Candidate Statement for IRPA Executive Council members for 2021-2024

Name: Njakatovo Zafimanjato

Present Position: Radiological Safety and Nuclear Security Officer

Organization: The National Association of Radiation Protection Madagascar (ANARAP Madagascar)

Chapter Affiliate: Africa Young Generation Network of International Radiation Protection Association (AYGN/IRPA)

Statement:

ANARAP embodies what is radiation protection and the scientific endeavour on that field here in Madagascar. It is not just a society which group researcher, it serves to disseminate and make more accessible the principles and practices of radiation protection for everyone.

I've been part of the ANARAP for the past three years as researcher, advisor and also nuclear safety, security and safeguard expert. I attended the conference Africa IRPA 5 held in Tunisia in 2018 and was part of the team which is responsible of the implementation of the Africa YGN/IRPA.

I believe that by being part of the IRPA Executive Council members, I would play an important role in building bonds among the staff and administration. If given an opportunity to be part of the IRPA Executive Council, I would be glad and proud to represent my continent, Africa.

As Member of IRPA Executive Council, I would work closely with the other members and help to further develop and implement new effective strategies especially to educate and grow the coming generations of radiation protection officer. Consider this: the early stage of this strategy is based on analysing problems at the regional level. After the assessment of the regional needs, we could start looking for a permanent solutions which allow the radiation protection students to come to thrive in a suitable environment. That personal development will allow scientist to be more productive and will help them to reach their goals. Simply put, I hope to be able to further add to IRPA new ideas to spur future science while aimed at supporting our future researchers!

Njakatovo ZAFIMANJATO

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Education

University of Antananarivo - Doctoral School Physics and Application (June 2021)

- ▶ **Ph.D.** Nuclear Physics
- ▶ Specializing in Applied Nuclear Physics - High energy physics

University of Antananarivo - Faculty of Science, Department of Physics and Chemistry (August 2016)

- ▶ **M.Sc.** Nuclear Physics
- ▶ Specializing in Applied Nuclear Physics and Environment

University of Antananarivo - Faculty of Science, Department of Physics and Chemistry (June 2014)

- ▶ **B.Sc.** Physics
- ▶ Specializing in Applied Physics

IT University Andoharanofotsy (August 2011)

- ▶ First Year Certificate
- ▶ Emphasis in Applied Informatics and Programming

Employment History

Doctoral Researcher

INSTN-Madagascar, November 2015 to Present

Tasks:

Researcher Teacher, nov. 2015 - dec. 2020

- Researcher in the field of radiation protection and nuclear security
- Preparation of the PhD thesis: 2nd year done.
- Lecturer in the Master's degree course in nuclear security
- Trainer in the field of nuclear safety, security and guarantee
- Assistant nuclear safeguards liaison officer with the International Atomic Energy Agency (IAEA)

Head of Nuclear security operations, Jan. 2019 - Sep. 2019

- Responsible for nuclear security operations for Pope Francis' visit to Antananarivo from September 06 to 08, 2019
- Training of front-line officers in the use of nuclear material and radioactive source detection devices
- Management of the nuclear security team and agents during the Pope's visit
- Development of a plan for integrating the detection architecture into the national security plan

Nuclear Security Officer, Aug. 2016 - Nov. 2016

- Security organization during the XI Francophonie Summit from November 22 to 27, 2016
- Management of detection equipment on the Summit sites
- Ensure Radiological Safety and Nuclear Safety
- Technical support to the various entities responsible for Summit Security.

Study Manager

Ministry of Foreign Affairs, August 2018 to April 2019

Tasks:

- Advisor and assistant within the political and security affairs department
- Responsible for the study: Nuclear disarmament, Radioactive waste management, Import-Export of radioactive sources
- Administration and management of the service as interim.

Graduate Trainee

Rio Tinto QIT Minerals Madagascar, January - May 2016

Tasks:

- Field practice as part of the preparation of the Master 2 thesis
- Assignment within the department of Health, Safety, Security and Environment as field staff
- Project to bag monazite within the company
- Collection of radioactive dose rates from the 2017-2018 mining plan before mining.

Trainings

- **Regional Training Course on Additional Protocol, November 26 - 30, 2018, Cape Town, Republic of South Africa. Organized by the South African Department of Energy and the International Atomic Energy Agency (IAEA).**
- **Regional School on Nuclear Security, October 16 - 27, 2017, Kenitra, Morocco. Organized by the University Ibn Tofail of Kenitra with the cooperation of the International Atomic Energy Agency (IAEA).**
- **Post Graduate Education in Radiation Protection and Safety of Ionizing Radiation Sources (PGEC), March 05 - July 29, 2017, Algiers, Algeria. Organized by the International Atomic Energy Agency (IAEA) with the cooperation of the Nuclear Research Center of Algiers (CRNA).**

Workshops

- **GICNT Nuclear Detection at Blue and Green Borders Workshop & Tabletop Exercise, December 03 - 05, 2019, Tangier, Morocco. Organized by the Global Initiative to Combat Terrorism (GICNT) and the Moroccan Agency for Nuclear and Radiological Safety and Security (AMSSNuR).**
- **International Seminar on Nuclear Security Systems and Measures for Major Public Event's, October 28 - 31, 2019, Chengdu, China. Organized by the Nuclear Power Institute of China and the International Atomic Energy Agency (IAEA).**
- **Global Initiative to Combat Terrorism (GICNT) Plenary Meeting 2019, June 05 - 07, 2019, Buenos Aires, Argentina. Organized by Global Initiative to Combat Terrorism (GICNT) and the International Atomic Energy Agency (IAEA).**
- **Workshop on Fundamentals of Physical Protection at Facilities holding Nuclear and Radiological Materials, January 27 – February 01, 2019, London, United Kingdom. Organized by the United Kingdom Department for BEIS-sponsored Nuclear Security Culture Program.**
- **IAEA 2018 Transport Security Technical meeting, July 09 - 13, 2018, Vienna, Austria. Organized by the International Atomic Energy Agency (IAEA).**
- **National Workshop on Industrial and Radiological Safety in the Mining Industries, January 16 - 18, 2017, Antananarivo, Madagascar. Organized by the International Atomic Energy Agency (IAEA) with the National Office of Mines and Strategic Industries (OMNIS) and International Labor Organization (ILO).**
- **Regional Workshop on the Establishment of a Scrap Metal Control System and Recycling Materials for Exposure Monitoring of Workers and the Public, 05 - 09 December 2016, Nairobi, Kenya. Organized by the International Atomic Energy Agency (IAEA).**
- **National Workshop on the Response to Nuclear Security Events at Locations and Other Strategic Locations, 07 - 11 November 2016, Antananarivo, Madagascar. Organized by the International Atomic Energy Agency (IAEA).**

- **Workshop on the development of a roadmap for the establishment of a Nuclear Security Detection Architecture for nuclear or other radioactive material out of regulatory control, 19 - 23 September 2016, Antananarivo, Madagascar. Organized by the International Atomic Energy Agency (IAEA).**
- **National Workshop on Nuclear Security Measures for Major Public Events, August 22 - 26, 2016, Antananarivo, Madagascar. Organized by the International Atomic Energy Agency (IAEA).**

Conferences

- **Third International Regulators Conference on Nuclear Security, October 01 - 04, 2019, Marrakech, Morocco. Organized by the Moroccan Agency for Nuclear and Radiological Safety and Security (AMSSNuR) in cooperation with International Atomic Energy Agency (IAEA).
Presentation: ID 29_Thematic Area 5, “Sustaining Physical Protection Regimes of nuclear facilities in Madagascar”.**
- **The Ninth International Symposium on Naturally Occurring Radioactive Material (NORM IX), September 23 - 27, 2019, Denver, CO, USA. Organized by the Conference of Radiation Control Program Directors (CRCPD) in cooperation with International Atomic Energy Agency (IAEA).
Presentation: “The Safety-Security Interface in Madagascar: Experience, Challenges, and Opportunities with Transport of NORM”.**
- **International Conference on the Security of Radioactive Material: The Way Forward for Prevention and Detection, December 03 - 07, 2018, Vienna, Austria. Organized by the International Atomic Energy Agency (IAEA).
Poster: CN269-331, “Strengthening the Security of Radioactive Material and Implementing Nuclear Security Detection Architecture in Madagascar”.**
- **5th African Regional Congress of the International Radiation Protection Association, September 06 - 09, 2018, Tunis, Tunisia. Organized by the International Radiation Protection Association (IRPA) in cooperation with Tunisian Association of Protection against Ionizing and Non Ionizing Radiations (ATPRI&NI) and International Atomic Energy Agency (IAEA).
Oral communication: PE-205 Young, “Remote measurement of dose rate by IoT system”.**

Skills

- Language: Malagasy, French, English
- Computer: IAEA Safeguard Protocol Reporter 3, IAEA Raiss 3.0, Word, Excel, Powerpoint, Arduino 1.8.8, Dev C++, Matlab, QGIS, ScintiVision, HTML, CSS, PHP programming

Leadership and volunteering

- **Founder and President, “IMPACT Association” (Improve-Manage-Protect-Act-Captivate-Teach Association); 2019-Now**
 - Help for destitute and underprivileged children in the capital on the educational field
 - Sensitization of young people to awareness, initiative and responsibility towards society
 - Assistance of various social projects to promote the usefulness of education for all
- **Young Generation Network, “ANARAP Madagascar” (National Radiation Protection Association); 2019-Now**
 - Promotion of radiation protection in the country
 - Awareness of the need for radiation protection in institutions using sources of ionizing radiation
 - Assistance to workers exposed to ionizing radiation
- **Communication, Recruitment and Integration Committee, “YALI Madagascar Association” (Young African Leader Initiative); 2015-2017**
- **SEMIGANY, Former student of the Saint Michel Amparibe College, Promotion Njamanolo (2010)**