

Peaceful Uses of Nuclear Energy (PUNE)

THE ROLE OF THE IAEA, SINGAPORE'S EXPERIENCE, AND REGIONAL
COOPERATION

Presentation Outline

The IAEA's Role
in Ensuring
Access to PUNE

Enhanced Third
Country Training
Programme

Singapore's
Cooperation
with the IAEA

ASEANTOM and
Regional
Cooperation

The IAEA's Role

- Providing assistance to Member States through the TC programme
 - The TC programme focuses on applying nuclear technology to support sustainable socioeconomic development



The IAEA's TC Programme in ASEAN

MYANMAR



CAMBODIA



Singapore's Cooperation with the IAEA

- Singapore joined the IAEA in 1967, soon after our independence in 1965

The IAEA has provided valuable assistance

In Singapore's early days

Cancer treatment

Food safety

Currently

Emergency preparedness and response

Nuclear and radiation regulation

Country Programme Framework (CPF)
(2016-2020)



Singapore's PR to the IAEA Foo Kok Jwee and IAEA DDG Dazhu Yang at the signing of the CPF, 5 December 2016

Singapore



Fifty years of Singapore-IAEA technical cooperation: From recipient to contributor

2017 marks the 50th anniversary of Singapore's membership to the IAEA. Independence was suddenly thrust upon Singapore in 1965. In its early post-independence years, Singapore received technical assistance from the IAEA in areas such as cancer treatment and food safety, laying the foundation for achieving its development goals.

As Singapore developed into an advanced country, it began sharing its experience with other developing countries. It also collaborated with partners like the IAEA to provide joint technical assistance to developing countries.

Since 2000, over 200 officials have been trained under the Singapore-IAEA Third Country Training Programme (TCTP) framework. An enhanced Singapore-IAEA TCTP MOU was concluded in 2015 to cover topics such as pest control and nuclear law, which will help developing countries attain the Sustainable Development Goals.

Supporting Singapore's nascent development (1960s–70s)

In Singapore's early post-independence days, the IAEA provided a medical physicist to help set up the laboratory of the Radiotherapy Department of the Singapore General Hospital. It also sent a biochemist to strengthen the capabilities of Singapore's radioisotope diagnostic laboratory, and two experts to assist industries with non-destructive testing.

(Source: The Straits Times © Singapore Press Holdings Limited. Reproduced with permission.)



Contributing to the technical cooperation programme since 2000

As Singapore's capabilities developed, we started contributing to the IAEA's efforts to provide technical assistance to developing Member States since 2000 through the Singapore-IAEA Third Country Training Programme (TCTP) framework. The first TCTP MOU was signed in 2000, and an enhanced TCTP MOU was concluded in 2015 to provide more relevant training in a wider range of topics to Member States. More than 200 officials from around the world have been trained under the TCTP.



Then-Resident Representative of Singapore to the IAEA Ambassador See Chak Mun and then-Deputy Director General of Technical Cooperation Qian Jihui signing the first Singapore-IAEA TCTP MOU at the IAEA in March 2000.

(Image credit: P. Puthucherry/ITC/AEIA/IAEA Archives)



Minister Grace Fu of Singapore and IAEA Director General Yukiya Amano signing the enhanced Singapore-IAEA TCTP MOU in Singapore in January 2015.

(Image credit: Ministry of Foreign Affairs, Singapore)

Providing relevant technical assistance to others under the Singapore-IAEA TCTP

Under the enhanced Third Country Training Programme MOU, Singapore and the IAEA have conducted joint training courses on the Sterile Insect Technique in 2015, nuclear law in 2016 and food safety in 2017 for countries in our region.



Researchers from the Asia and the Pacific region receiving training on the Sterile Insect Technique in Singapore in November 2015.

(Image credit: National Environmental Agency, Singapore)



Legal experts from the Asia and the Pacific region at a regional workshop on nuclear law held in Singapore in June 2016.

(Image credit: Ministry of Foreign Affairs, Singapore)



Food safety practitioners from the Asia and the Pacific region receiving training on the use and maintenance of food safety analytical equipment in Singapore in March 2017.

(Image credit: Agri-Food and Veterinary Authority, Singapore)

Working for a better future



Artist impressions of the new National Cancer Centre Singapore Building
(Image credit: National Cancer Centre Singapore)

Singapore continues to benefit from the IAEA's technical cooperation programme in fields such as proton beam therapy to enhance its cancer treatment capacity. Singapore's proton beam therapy centre in the National Cancer Centre Singapore is expected to be ready by 2021.

Singapore is also working with the IAEA to provide joint training to the region in the field of nuclear safety and emergency preparedness and response in the near future. Singapore is committed to continue working with the IAEA to help developing IAEA Member States attain the Sustainable Development Goals.

IAEA Director General Yukiya Amano on Singapore-IAEA cooperation



IAEA Director General Yukiya Amano speaking at the Singapore Energy Market Authority Distinguished Speaker Programme, January 2015.

(Image credit: C. Deady/IAEA)

“Singapore is an important partner for the IAEA. ... I will be signing, with Minister Grace Fu, an agreement that will enhance our cooperation in providing training to assist countries in the region in important areas of nuclear applications, safety and security.”

— IAEA Director General Yukiya Amano

Singapore's Cooperation with the IAEA

- Singapore contributes to the IAEA by hosting fellowships and technical assistance programmes
- Since 2000:

36

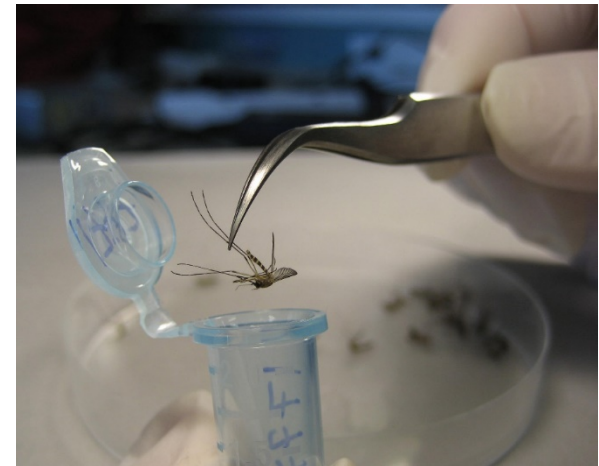
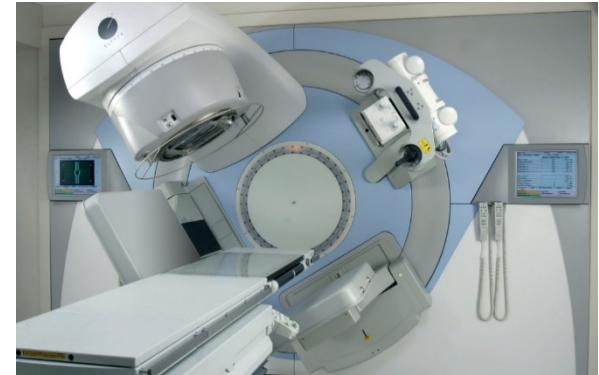
workshops

115

training fellowships

26

Scientific visits



Enhanced Third Country Training Programme (TCTP) MOU



IAEA DG Yukiya Amano and Singapore's then-Second Minister for Foreign Affairs Grace Fu at the signing of the enhanced Singapore-IAEA TCTP MOU, 26 January 2015

Enhanced Third Country Training Programme (TCTP) MOU

- We have organised regional workshops on a broad range of topics

Regional Workshop on
Nuclear Law for Member
States in the Asia and Pacific
Region

Regional Training Course on
the Strategy and Evaluation
of Trials on Aedes Mosquito
Population Suppression using
the Sterile Insect Technique

Regional Workshop on
Communication with the
Public in a Nuclear or
Radiological Emergency

Regional Workshop on
Preparation and Clinical
Utilisation of Radiolabelled
Therapeutic Peptides

IAEA Regional Workshop on
Sterile and Incompatibility
Insect Techniques for
Mosquito Control

Other Training Programmes

- The Singapore General Hospital (SGH) and the IAEA concluded Practical Arrangements in 2017

Final Review Meeting and Workshop on Nuclear Medicine Techniques for Dementia

Regional Training Workshop on Production, Quality Control, and Health Regulations for Radiopharmaceuticals



ASEANTOM and Regional Cooperation

- ASEAN Network of Regulatory Bodies on Atomic Energy (ASEANTOM)
 - Formally established in 2012
 - Aims to strengthen nuclear safety, security, and safeguards within ASEAN
 - Holds annual meetings and technical workshops and meetings



ASEANTOM-IAEA Cooperation

- IAEA TC project “Supporting Regional Nuclear Emergency Preparedness and Response in the Member States of ASEAN”
 - 2016 - 2019
 - Comprises workshops, training courses, expert missions, scientific visits

Workshop on Assessment and Decision Making Protocol and Public Communication Strategy in a Nuclear or Radiological Emergency for ASEAN Region

- ✓ Conducted in Singapore from 19 to 23 March 2018
- ✓ Encouraged information sharing among ASEAN countries
- ✓ ASEAN countries reviewed the status of national nuclear and radiological emergency capabilities and arrangements

Thank you
