

CLOSING SESSION

During the closing session the IAEA Director General or his representative will be joined by Mahama Ayariga, Minister of Environment, Science, Technology and Innovation of Ghana; Jose Fidel Santana Nuñez, Vice Minister of Science, Technology and Environment of Cuba; and Lydia Parades Gutierrez, Director General of Instituto Nacional de Investigaciones Nucleares (ININ) in Mexico to summarize the outcome of the Forum in an open discussion on the relevance and added value of the application of radiation technologies in a wide range of industries.

WORKING LANGUAGE

The working language of the Forum will be English.

REGISTRATION FEE

No registration fee is charged to participants.

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CONFERENCE WEB PAGE

Detailed information on administrative procedures including participation and registration is provided on the Forum web site:

<http://www-pub.iaea.org/iaea meetings/46532/Scientific-Forum-Atoms-in-Industry-Radiation-Technology-for-Development>

IAEA Scientific Forum

ATOMS IN INDUSTRY

Radiation Technology
for Development

15–16 September 2015

Vienna, Austria

Boardroom D,
C Building, 4th Floor



IAEA
International Atomic Energy Agency
Atoms for Peace

BACKGROUND

What are the uses of radiation technology, and what benefits does it bring to our lives? The public has little awareness about how widespread the use of nuclear techniques is beyond the generation of power. This year's Scientific Forum will showcase how radiation technologies are used in a broad range of industries.

The Forum, which will be opened by IAEA Director General, Mr Yukiya Amano, will comprise six sessions over two days. Each session will feature presentations by leading scientists and experts from various countries followed by interactive discussions between the speakers and the audience to ensure a stimulating and engaging event.

The sessions will be concluded with an open discussion on the relevance and added value of the application of radiation technologies in a wide range of industries to support countries' development efforts.

The IAEA Director General or his representative will wrap up the Scientific Forum by answering questions and highlighting the support and assistance offered by the IAEA to its Member States in establishing facilities to make use of radiation technologies.

OPENING SESSION

In the opening session leading experts will give a brief overview of the benefits radiation technology has brought to various industries. Keynote speakers will be Sergey Kirienko, Director General of The State Atomic Energy Corporation ROSATOM; Ratan Kumar Sinha, Secretary to Government of India, Department of Atomic Energy; Taylor Wilson, Nuclear Physicist.

SESSION 1

BATTLING THE BUGS

The first session will demonstrate how radiation can kill disease-causing germs and neutralize other harmful organisms, and how it is therefore often used to sanitize (i.e. clean or sterilize) materials. This session will discuss how nuclear applications and radiation technology benefit human health and improve health care.

SESSION 2

LINKING THE CHAINS

The second session will focus on the radiation processing of polymers, such as rubber, as a cost-effective technology that allows mass production of high quality goods. Once set up, radiation processing techniques can make large-scale production economical and environmentally friendly. This session will highlight the wide reach of radiation technologies used for cross-linking processes in materials, which benefit a variety of industries and ultimately consumers.

SESSION 3

SOLUTIONS FOR POLLUTION

The third session will demonstrate how radiation technologies have been successfully deployed to identify contamination pathways and to treat and neutralize persistent industrial pollutants. This session will focus on the application of such technologies for the treatment of wastewaters and flue gases, as well as for the preservation of coastlines.

SESSION 4

TRACING THE PATHWAYS

The fourth session will show how radiotracers and nucleonic gauges play an important role in enhancing productivity and in ensuring the quality and reliability of industrial processes and production systems. Such techniques also help to trace the pathways of unseen phenomena in nature. This session will discuss how radiation technologies (radiotracers and gauges) benefit industries and help to identify the potential negative impacts of human activities.

SESSION 5

BOLSTERING SAFETY AND QUALITY

The fifth session will focus on the role of radiation technologies in realizing the paramount goal of ensuring safety in industry. Radiation based non-destructive testing (NDT) techniques are indispensable tools for all manufacturing industries and civil engineering activities. Such techniques help to assess, control and periodically examine the quality of components, machinery and structures, which in turn ensures the safety of operation and the protection of human lives. This session will focus on radiation based NDT — a key technology for improving and guaranteeing the quality of industrial goods and services, and will be followed by a panel discussion on training and qualification of personnel in this important area.

SESSION 6

RAY'S OF HOPE

The sixth session will look at new developments and innovative uses of radiation technology, including in the areas of health, food and agriculture, and cultural heritage. In particular, the efforts of Member States in assimilating radiation technologies to derive socioeconomic benefits will be highlighted. This last session will be concluded with a panel discussion and an open Forum for Member States.