



ACCADEMIA NAZIONALE DEI LINCEI

XX EDOARDO AMALDI CONFERENCE
INTERNATIONAL COOPERATION FOR ENHANCING NUCLEAR SAFETY,
SECURITY, SAFEGUARDS AND NON-PROLIFERATION
60 YEARS
IAEA ATOMS FOR PEACE AND DEVELOPMENT
EURATOM TREATY



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ACCADEMIA NAZIONALE DEI LINCEI
ROME, 9 – 10 OCTOBER 2017
ITALY



60 Years

Atoms for Peace and Development



ACCADEMIA NAZIONALE DEI LINCEI



European
Commission

PATRONAGE



*Ministero degli Affari Esteri
e della Cooperazione Internazionale*



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dell'Università e della Ricerca*



ACCADEMIA NAZIONALE DEI LINCEI
PALAZZO CORSINI, VIA DELLA LUNGARA 10 - ROME
ITALY



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ORGANIZING COMMITTEE

PRESIDENTS

ALBERTO QUADRIO CURZIO AND VLADIMÍR ŠUCHA

CHAIRS

LUCIANO MAIANI AND SAID ABOUSAHL

SCIENTIFIC SECRETARY

WOLFANGO PLASTINO

BOARD

MARIA BETTI, JACEK BYLICA, FRANCESCO CALOGERO,
GÖTZ NEUNECK, CARLO SCHAEF, AND EDOARDO VESENTINI



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PROGRAM

MONDAY, 9 OCTOBER

9.30 - 10.00 OPENING ADDRESSES

ALBERTO QUADRIO CURZIO – PRESIDENT OF THE ACCADEMIA NAZIONALE DEI LINCEI, ITALY

LUCA GIANANTI – DIRECTOR GENERAL FOR POLITICAL AFFAIRS AND SECURITY AT THE MINISTRY OF FOREIGN AFFAIRS AND INTERNATIONAL COOPERATION, ITALY

VLADIMÍR ŠUCHA – DIRECTOR GENERAL OF THE JOINT RESEARCH CENTRE, EUROPEAN COMMISSION

LUCIANO MAIANI – CHAIR OF THE XX EDOARDO AMALDI CONFERENCE, ITALY

KEYNOTE LECTURES

CHAIRS

ALBERTO QUADRIO CURZIO – PRESIDENT OF THE ACCADEMIA NAZIONALE DEI LINCEI, ITALY

VLADIMÍR ŠUCHA – DIRECTOR GENERAL OF THE JOINT RESEARCH CENTRE, EUROPEAN COMMISSION

10.00 - 10.30 60 YEARS OF IAEA: ATOMS FOR PEACE AND DEVELOPMENT

LECTURER H.E. YUKIYA AMANO – IAEA DIRECTOR GENERAL

10.30 - 11.00 60 YEARS OF EURATOM TREATY: DISARMAMENT AND NON-PROLIFERATION, NEW CHALLENGES AND OPPORTUNITIES

LECTURER H.E. FEDERICA MOGHERINI – HIGH REPRESENTATIVE OF THE UNION FOR FOREIGN AFFAIRS AND SECURITY POLICY – VICE-PRESIDENT OF THE EUROPEAN COMMISSION

11.00 - 11.30 COFFEE BREAK



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SESSION 1 – PART I

NUCLEAR SAFETY AND SECURITY

CHAIR: **JACEK BYLICA** – EEAS, EUROPEAN UNION

- 11.30 - 12.00 IAEA'S CENTRAL ROLE IN INTERNATIONAL COOPERATION FOR STRENGTHENING
NUCLEAR SAFETY AND NUCLEAR SECURITY WORLDWIDE
SPEAKER GUSTAVO CARUSO – IAEA
- 12.00 - 12.30 NUCLEAR SECURITY SUMMITS AND LEGACY
SPEAKER ALEXANDRE BILODEAU – IGN, CANADA
- 12.30 - 13.00 THE GICNT CONTRIBUTION TO NUCLEAR SECURITY
SPEAKER JARI LUOTO – GICNT IAG
- 13.00 - 14.15 LUNCH BREAK

SESSION 1 – PART II

NUCLEAR SAFETY AND SECURITY

CHAIR: **UMBERTO VATTANI** – PRESIDENT OF THE ITALY-JAPAN FOUNDATION, ITALY

- 14.15 - 14.45 EURATOM NUCLEAR SAFETY FRAMEWORK
SPEAKER MASSIMO GARRIBBA – DG ENER, EUROPEAN COMMISSION
- 14.45 - 15.15 UPDATING FROM LESSONS LEARNT FROM FUKUSHIMA
SPEAKER TATSUJIRO SUZUKI – RECNA, JAPAN
- 15.15 - 15.45 CYBER SECURITY AND NUCLEAR SECURITY: HOW ARE THEY RELATED – AN OVERVIEW
SPEAKER GÖTZ NEUNECK – IFSH, GERMANY
- 15.45 - 16.00 COFFEE BREAK



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SESSION 2

NUCLEAR SAFEGUARDS

CHAIR: **MARIA BETTI** – DG JRC, EUROPEAN COMMISSION

- 16.00 - 16.30 **SIXTY YEARS OF NUCLEAR VERIFICATION**
*SPEAKER **FREDERIC CLAUDE** – IAEA*
- 16.30 - 17.00 **EURATOM SAFEGUARDS SYSTEM**
*SPEAKER **STEPHAN LECHNER** – DG ENER, EUROPEAN COMMISSION*
- 17.00 - 17.30 **TECHNICAL SYNERGIES BETWEEN SAFEGUARDS AND SECURITY**
*SPEAKER **ELINA MARTIKKA** – STUK, FINLAND*

17.30 - 19.00

PANEL

NUCLEAR SAFEGUARDS CHALLENGES

CHAIR: **SAID ABOUSAHL** – DG JRC, EUROPEAN COMMISSION

- 17.30 – 18.00 **ANNE HARRINGTON** – USA
WILLEM JANSSENS – DG JRC EUROPEAN COMMISSION
YOSUKE NAOI – JAPAN

18.00 - 19.00 GENERAL DISCUSSION

20.00 WELCOME RECEPTION AT THE ACCADEMIA NAZIONALE DEI LINCEI



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TUESDAY, 10 OCTOBER

SESSION 3 – PART I

TOPICS OF NUCLEAR NON-PROLIFERATION: PRESENT AND FUTURE CHALLENGES

CHAIR: **GIANFRANCO INCARNATO** – MINISTRY OF FOREIGN AFFAIRS AND INTERNATIONAL COOPERATION, ITALY

- 9.45 - 10.15 STATUS OF NUCLEAR NON-PROLIFERATION
SPEAKER PAOLO COTTA RAMUSINO – PUGWASH
- 10.15 - 10.45 THE FRENCH NATIONAL PERSPECTIVE ON NUCLEAR NON-PROLIFERATION
SPEAKER REMO CHIAPPINI – CEA, FRANCE
- 10.45 - 11.15 THE ISRAELI NATIONAL PERSPECTIVE ON NUCLEAR NON-PROLIFERATION
SPEAKER MERAV ZAFARY-ODIZ – IAEC, ISRAEL
- 11.15 - 11.30 COFFEE BREAK

SESSION 3 – PART II

TOPICS OF NUCLEAR NON-PROLIFERATION: PRESENT AND FUTURE CHALLENGES

CHAIR: **FRANCESCO CALOGERO** – SAPIENZA UNIVERSITY OF ROME, ITALY

- 11.30 - 12.00 THE IRANIAN NATIONAL PERSPECTIVE ON NUCLEAR NON-PROLIFERATION
SPEAKER ALI AKBAR SALEHI – AEOL, IRAN
- 12.00 - 12.30 THE PAKISTANI NATIONAL PERSPECTIVE ON NUCLEAR NON-PROLIFERATION
SPEAKER KHALID AHMED KIDWAI – NCA, PAKISTAN
- 12.30 - 13.00 FUTURE OF THE NON-PROLIFERATION TREATY
SPEAKER HARALD MÜLLER – PRIF, GERMANY
- 13.00 - 14.15 LUNCH BREAK



SESSION 4

ROLE OF SCIENCE IN TECHNICAL AND INTERNATIONAL COOPERATION

CHAIR: **ZEHRA SAYERS** – SABANCI UNIVERSITY, TURKEY

- 14.15 - 14.45 IAEA'S TECHNICAL COOPERATION PROGRAMME - NUCLEAR TECHNOLOGY
CONTRIBUTING TO DEVELOPMENT
SPEAKER ANA RAFFO-CAIADO – IAEA
- 14.45 - 15.15 CTBTO SCIENCE AND TECHNOLOGY FOR A SAFER WORLD
SPEAKER RANDY BELL – CTBTO
- 15.15 - 15.45 SCIENCE BEYOND BOUNDARIES: SESAME AND THE INTERNATIONAL COOPERATION
SPEAKER CHRIS LLEWELLYN SMITH – OXFORD UNIVERSITY, UNITED KINGDOM
TESTIMONIAL GIHAN KAMEL – SESAME, EGYPT
- 16.00 - 16.15 COFFEE BREAK
- 16.15 - 17.45 **PANEL**
THE FUTURE OF NUCLEAR DISARMAMENT AND NON-PROLIFERATION
CHAIR: **LUCIANO MAIANI** – ACCADEMIA NAZIONALE DEI LINCEI, ITALY
- 16.15 - 16.45 **MICAH LOWENTHAL** – USA
ALEXANDER SAVELYEV – RUSSIA
XIANGLI SUN – CHINA
- 16.45 - 17.45 GENERAL DISCUSSION
- 17.45 - 18.15 CLOSING OF THE CONFERENCE
- 18.15 - 20.00 GUIDED TOUR OF VILLA FARNESINA AND BIBLIOTECA CORSINIANA



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PARTICIPANTS

AFFILIATIONS

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CHAIR OF XX EDOARDO AMALDI CONFERENCE. EURATOM COORDINATOR AT THE DIRECTORATE-GENERAL OF THE JOINT RESEARCH CENTRE, EUROPEAN COMMISSION

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- REMO CHIAPPINI** DEPUTY DIRECTOR FOR NUCLEAR MATERIALS AND NON-PROLIFERATION IN THE MILITARY APPLICATION AT THE FRENCH ALTERNATIVE ENERGIES AND ATOMIC ENERGY COMMISSION, FRANCE
- FREDERIC CLAUDE** DIRECTOR OF THE SAFEGUARDS OPERATIONS AT THE DEPARTMENT OF SAFEGUARDS, INTERNATIONAL ATOMIC ENERGY AGENCY, UNITED NATIONS
- PAOLO COTTA-RAMUSINO** SECRETARY GENERAL OF THE PUGWASH CONFERENCES ON SCIENCE AND WORLD AFFAIRS. MEMBER OF INTERNATIONAL SECURITY AND ARMS CONTROL WORKING GROUP AT THE ACCADEMIA NAZIONALE DEI LINCEI
- MASSIMO GARRIBBA** DIRECTOR OF THE NUCLEAR ENERGY, SAFETY AND INTERNATIONAL THERMONUCLEAR EXPERIMENTAL REACTOR AT THE DIRECTORATE-GENERAL FOR ENERGY, EUROPEAN COMMISSION
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- ANNE HARRINGTON** FORMER DEPUTY ADMINISTRATOR FOR DEFENSE NUCLEAR NON-PROLIFERATION AT THE NATIONAL NUCLEAR SECURITY ADMINISTRATION, UNITED STATES OF AMERICA
- GIANFRANCO INCARNATO** DIRECTOR FOR SECURITY, DISARMAMENT AND NON-PROLIFERATION AT THE MINISTRY OF FOREIGN AFFAIRS AND INTERNATIONAL COOPERATION-DIRECTORATE-GENERAL FOR POLITICAL AFFAIRS AND SECURITY, ITALY
- WILLEM JANSSENS** HEAD OF THE NUCLEAR SECURITY AND SAFEGUARDS DEPARTMENT AT THE DIRECTORATE FOR NUCLEAR SAFETY AND SECURITY OF THE JOINT RESEARCH CENTRE, EUROPEAN COMMISSION
- GIHAN KAMEL** SESAME INFRARED BEAMLINE SCIENTIST, EGYPT



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KHALID AHMED KIDWAI	ADVISOR TO NATIONAL COMMAND AUTHORITY AND FORMER DIRECTOR GENERAL OF STRATEGIC PLANS DIVISION, PAKISTAN
STEPHAN LECHNER	DIRECTOR OF THE EURATOM SAFEGUARDS AT THE DIRECTORATE-GENERAL FOR ENERGY, EUROPEAN COMMISSION
CHRIS LLEWELLYN SMITH	PRESIDENT OF THE SESAME COUNCIL. OXFORD UNIVERSITY, UNITED KINGDOM
MICAH LOWENTHAL	DIRECTOR OF THE COMMITTEE ON INTERNATIONAL SECURITY AND ARMS CONTROL AT THE NATIONAL ACADEMY OF SCIENCES, UNITED STATES OF AMERICA
JARI LUOTO	COORDINATOR OF THE IMPLEMENTATION AND ASSESSMENT GROUP OF THE GLOBAL INITIATIVE TO COMBAT NUCLEAR TERRORISM, FINLAND
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ELINA MARTIKKA	HEAD OF SECTION FOR NUCLEAR MATERIALS SAFEGUARDS AT THE RADIATION AND NUCLEAR SAFETY AUTHORITY, FINLAND
FEDERICA MOGHERINI	HIGH REPRESENTATIVE OF THE UNION FOR FOREIGN AFFAIRS AND SECURITY POLICY, AND VICE-PRESIDENT OF THE EUROPEAN COMMISSION
HARALD MÜLLER	DIRECTOR EMERITUS OF PEACE RESEARCH INSTITUTE FRANKFURT, GERMANY
YOSUKE NAOI	DIRECTOR OF THE INTEGRATED SUPPORT CENTER FOR NUCLEAR NON-PROLIFERATION AND NUCLEAR SECURITY AT THE JAPAN ATOMIC ENERGY AGENCY, JAPAN



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- GÖTZ NEUNECK** MEMBER OF THE BOARD OF XX EDOARDO AMALDI CONFERENCE. HEAD OF INTERDISCIPLINARY RESEARCH GROUP ON DISARMAMENT, ARMS CONTROL AND RISK TECHNOLOGIES AT THE INSTITUTE FOR PEACE RESEARCH AND SECURITY POLICY - UNIVERSITY OF HAMBURG, GERMANY
- WOLFANGO PLASTINO** SCIENTIFIC SECRETARY OF XX EDOARDO AMALDI CONFERENCE AND OF INTERNATIONAL SECURITY AND ARMS CONTROL WORKING GROUP AT THE ACCADEMIA NAZIONALE DEI LINCEI. ROMA TRE UNIVERSITY, ITALY
- ALBERTO QUADRIO CURZIO** PRESIDENT OF THE XX EDOARDO AMALDI CONFERENCE. PRESIDENT OF THE ACCADEMIA NAZIONALE DEI LINCEI, ITALY
- ANA RAFFO-CAIADO** DIRECTOR OF THE DIVISION OF PROGRAMME SUPPORT AND COORDINATION AT THE DEPARTMENT OF TECHNICAL COOPERATION, INTERNATIONAL ATOMIC ENERGY AGENCY, UNITED NATIONS
- ALI AKBAR SALEHI** DIRECTOR OF THE ATOMIC ENERGY ORGANIZATION OF IRAN, ISLAMIC REPUBLIC OF IRAN
- ALEXANDER SAVELYEV** DEPUTY HEAD OF THE CENTER OF INTERNATIONAL SECURITY AT THE INSTITUTE OF WORLD ECONOMY AND INTERNATIONAL RELATIONS - RUSSIAN ACADEMY OF SCIENCES. MOSCOW STATE UNIVERSITY, RUSSIA
- ZEHRA SAYERS** CHAIR OF THE SESAME SCIENTIFIC ADVISORY COMMITTEE. SABANCI UNIVERSITY, TURKEY
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XIANGLI SUN	DIRECTOR OF CENTER FOR STRATEGIC STUDIES AT THE CHINA ACADEMY OF ENGINEERING PHYSICS, CHINA
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VENUE OF THE CONFERENCE

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