



Accademia Nazionale dei Lincei

**THE XXI EDOARDO AMALDI CONFERENCE
INTERNATIONAL COOPERATION FOR ENHANCING NUCLEAR
SAFETY, SECURITY, SAFEGUARDS AND NON-PROLIFERATION**

ACCADEMIA NAZIONALE DEI LINCEI
ROME, 7 – 8 OCTOBER 2019
ITALY



NATIONAL ACADEMY OF SCIENCES

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UNDER THE PATRONAGE OF



*Ministero degli Affari Esteri
e della Cooperazione Internazionale*



Presidenza della Repubblica Italiana



*Ministero dell'Istruzione,
dell'Università e della Ricerca*

WITH THE SUPPORT OF



Consiglio Nazionale
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Istituto Nazionale di Fisica Nucleare



TRECCANI
LA CULTURA ITALIANA



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

GIORGIO PARISI AND MARCIA MCNUTT

CHAIRS

LUCIANO MAIANI AND RAYMOND JEANLOZ

SCIENTIFIC SECRETARY

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FRANCESCO CALOGERO, STEVE FETTER, MICAH LOWENTHAL,
RICHARD MIES, ALBERTO QUADRIO CURZIO, CARLO SCHAERF,
AND EDOARDO VESENTINI



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PROGRAM

MONDAY, 7 OCTOBER

10.00 - 10.45

OPENING ADDRESSES

GIORGIO PARISI – PRESIDENT OF THE ACCADEMIA NAZIONALE DEI LINCEI, ITALY

MARCIA McNUTT – PRESIDENT OF THE NATIONAL ACADEMY OF SCIENCES, UNITED STATES OF AMERICA

IZUMI NAKAMITSU (BY VIDEO) – UNDER SECRETARY-GENERAL, UNITED NATIONS

ENZO MOAVERO MILANESI – MINISTER OF FOREIGN AFFAIRS AND INTERNATIONAL COOPERATION, ITALY

RAYMOND JEANLOZ – CHAIR OF THE XXI EDOARDO AMALDI CONFERENCE, UNITED STATES OF AMERICA

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

KEYNOTE SPEECHES

CHAIRS

GIORGIO PARISI – PRESIDENT OF THE ACCADEMIA NAZIONALE DEI LINCEI, ITALY

MARCIA McNUTT – PRESIDENT OF THE NATIONAL ACADEMY OF SCIENCES,
UNITED STATES OF AMERICA

10.45 - 11.00

A VISION FOR THE FUTURE OF NON-PROLIFERATION AND DISARMAMENT

MOHAMED ELBARADEI – *DIRECTOR-GENERAL EMERITUS OF THE INTERNATIONAL ATOMIC ENERGY AGENCY (TO BE CONFIRMED)*

11.00 - 11.15

SCIENCE FOR PEACE

FABIOLA GIANOTTI – *DIRECTOR-GENERAL OF THE EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH*

11.15 - 11.30

COFFEE BREAK



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11.30 - 13.00

PANEL 1

NEW AND EVOLVING VOICES IN ARMS CONTROL AND DISARMAMENT

CHAIR: ALBERTO QUADRIO CURZIO

PRESIDENT EMERITUS OF THE ACCADEMIA NAZIONALE DEI LINCEI, ITALY

11.30 - 11.50

THE RISKS OF NUCLEAR PROLIFERATION: ADDRESSING THE CHALLENGE
SEBASTIANO CARDI – *MAECI, ITALY*

11.50 - 12.10

PREFERRED COURSES OF ACTION FOR EUROPEAN SECURITY AS NUCLEAR ARMS
CONTROL CHANGES IN THE 2020S
FEDERICA MOGHERINI (BY VIDEO) – *HR, EUROPEAN COMMISSION*

12.10 - 12.30

ABOLISHING NUCLEAR WEAPONS AND THE ROLE OF YOUTH
BEATRICE FIHN – *ICAN*

12.30 - 13.00

QUESTIONS AND DISCUSSION

13.00 - 14.15

LUNCH BREAK

14.15 - 15.45

PANEL 2

NUCLEAR WEAPONS, NON-PROLIFERATION, AND THE BROADER SECURITY ENVIRONMENT

CHAIR: FRANCESCO CALOGERO

SAPIENZA UNIVERSITY OF ROME, ITALY

14.15 - 14.35

NUCLEAR WEAPONS, INTERNATIONAL SECURITY, AND NON-PROLIFERATION IN THE 2020S
CHRISTOPHER ASHLEY FORD – *STATE DEPARTMENT, UNITED STATES OF AMERICA*

14.35 - 14.55

RUSSIA'S VISION FOR ARMS CONTROL, DISARMAMENT, AND NON-PROLIFERATION
VLADIMIR YERMAKOV – *MFA, RUSSIAN FEDERATION (TO BE CONFIRMED)*

14.55 - 15.15

THE CHINESE NATIONAL PERSPECTIVE ON NUCLEAR SAFETY, SECURITY, SAFEGUARDS
AND NON-PROLIFERATION
LI HUA – *CAE, PEOPLE'S REPUBLIC OF CHINA*

15.15 - 15.45

QUESTIONS AND DISCUSSION

15.45 - 16.00

COFFEE BREAK



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16.00 - 17.30

PANEL 3

**REALIZING THE PROMISE OF THE NON-PROLIFERATION REGIME
THROUGH COOPERATION AND MONITORING**

CHAIR: **RICHARD MIES**

U.S. NAVY FORMER COMMANDER OF STRATEGIC COMMAND, UNITED STATES OF AMERICA

16.00 - 16.20

THE IAEA FOR BUILDING FUTURE SAFEGUARDS CAPABILITIES
MASSIMO APARO – IAEA

16.20 - 16.40

SCIENCE AND TECHNOLOGY FOR PUTTING AN END TO NUCLEAR EXPLOSIONS
TAMMY TAYLOR – CTBTO

16.40 - 17.00

CHALLENGES AND OPPORTUNITIES IN SCIENTIFIC AND TECHNOLOGICAL SUPPORT FOR
MONITORING IN THE NON-PROLIFERATION REGIME
JILL HRUBY – SANDIA, UNITED STATES OF AMERICA

17.00 - 17.30

QUESTIONS AND DISCUSSION

17.30 - 19.00

FORUM

**MAJOR CHALLENGES, OPPORTUNITIES, AND NEXT STEPS FOR THE PARTIES TO THE
NUCLEAR NON-PROLIFERATION TREATY APPROACHING
THE 2020 REVIEW CONFERENCE**

CHAIRS

LUCIANO MAIANI – ACCADEMIA NAZIONALE DEI LINCEI, ITALY
RAYMOND JEANLOZ – NATIONAL ACADEMY OF SCIENCES, UNITED STATES OF AMERICA

17.30 – 18.00

RAFAEL GROSSI – NPT REVCN

18.00 – 19.00

GENERAL DISCUSSION

20.00

WELCOME RECEPTION AT THE ACCADEMIA NAZIONALE DEI LINCEI



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TUESDAY, 8 OCTOBER

9.45 - 11.15

PANEL 4

PERSPECTIVES ON NUCLEAR NON-PROLIFERATION – PART I

CHAIR: **CARLO SCHAERF**

PRESIDENT OF THE INTERNATIONAL SCHOOL ON
DISARMAMENT AND RESEARCH ON CONFLICTS, ITALY

9.45 - 10.05

THE IRANIAN NATIONAL PERSPECTIVE ON NUCLEAR NON-PROLIFERATION
ALI AKBAR SALEHI – *AEOI, ISLAMIC REPUBLIC OF IRAN*

10.05 - 10.25

THE PAKISTANI NATIONAL PERSPECTIVE ON NUCLEAR NON-PROLIFERATION
MUHAMMAD NAEEM – *PAEC, ISLAMIC REPUBLIC OF PAKISTAN*

10.25 - 10.45

NUCLEAR NON-PROLIFERATION IN A CHANGING WORLD: A FRENCH EXPERT'S
PERSPECTIVE
CAROLINE JORANT – *SDRI, FRANCE*

10.45 - 11.15

QUESTIONS AND DISCUSSION

11.15 - 11.30

COFFEE BREAK

11.30 - 13.00

PANEL 5

PERSPECTIVES ON NUCLEAR NON-PROLIFERATION – PART II

CHAIR: **STEVE FETTER**

UNIVERSITY OF MARYLAND, UNITED STATES OF AMERICA

11.30 - 11.50

THE ISRAELI PERSPECTIVE ON NUCLEAR SECURITY, NUCLEAR SAFETY AND NON-
PROLIFERATION
DAVID NUSBAUM – *IAEC, ISRAEL*

11.50 - 12.10

POTENTIAL ADAPTIVE COOPERATIVE THREAT REDUCTION APPROACHES
YONGSOO HWANG – *KAERI, REPUBLIC OF KOREA*

12.10 - 12.30

A UK PERSPECTIVE ON NUCLEAR SAFETY, SECURITY, SAFEGUARDS, AND NON-
PROLIFERATION
ROBIN GRIMES – *MOD, UNITED KINGDOM*

12.30 - 13.00

QUESTIONS AND DISCUSSION

13.00 - 14.15

LUNCH BREAK



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14.15 - 15.45

PANEL 6

INTERNATIONAL TECHNICAL COOPERATION AND THE ROLE OF SCIENCE DIPLOMACY

CHAIR: MICAH LOWENTHAL

DIRECTOR OF CISAC - THE NATIONAL ACADEMY OF SCIENCES, UNITED STATES OF AMERICA

14.15 - 14.35

THE HISTORICAL AND FUTURE ROLE OF SCIENCE DIPLOMACY: ENABLING THE NEXT
GENERATION OF LEADERS
PAOLO COTTA-RAMUSINO – PUGWASH

14.35 - 14.55

ITER PROJECT: INTERNATIONAL COOPERATION AND ENERGY INVESTMENT
BERNARD BIGOT – ITER

14.55 - 15.15

LIGO AND SCIENCE DIPLOMACY
BARRY BARISH – LIGO, UNITED STATES OF AMERICA

15.15 - 15.45

QUESTIONS AND DISCUSSION

15.45 - 16.00

COFFEE BREAK

16.00 - 17.30

FORUM

PROMOTING INTERNATIONAL SECURITY DURING DIFFICULT TIMES FOR ARMS CONTROL

CHAIRS

LUCIANO MAIANI – ACCADEMIA NAZIONALE DEI LINCEI, ITALY
RAYMOND JEANLOZ – NATIONAL ACADEMY OF SCIENCES, UNITED STATES OF AMERICA

16.00 - 16.30

ANTONIO MISSIROLI – NATO

16.30 - 17.30

GENERAL DISCUSSION

17.30 - 17.45

CLOSING OF THE CONFERENCE

18.00 - 20.00

GUIDED TOUR OF VILLA FARNESINA AND BIBLIOTECA CORSINIANA



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PARTICIPANTS
(SPEAKERS AND ORGANIZERS)

AFFILIATIONS

MASSIMO APARO

DEPUTY DIRECTOR-GENERAL AND HEAD OF THE DEPARTMENT OF SAFEGUARDS, INTERNATIONAL ATOMIC ENERGY AGENCY

BARRY BARISH

FORMER DIRECTOR LASER INTERFEROMETER GRAVITATIONAL-WAVE OBSERVATORY. CALIFORNIA INSTITUTE OF TECHNOLOGY, UNITED STATES OF AMERICA

BERNARD BIGOT

DIRECTOR-GENERAL OF THE INTERNATIONAL THERMONUCLEAR EXPERIMENTAL REACTOR

FRANCESCO CALOGERO

MEMBER OF THE BOARD OF XXI EDOARDO AMALDI CONFERENCE AND OF INTERNATIONAL SECURITY AND ARMS CONTROL WORKING GROUP AT THE ACCADEMIA NAZIONALE DEI LINCEI. SAPIENZA UNIVERSITY OF ROME, ITALY

SEBASTIANO CARDI

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

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. UNIVERSITY OF MILAN, ITALY

MOHAMED ELBARADEI

DIRECTOR-GENERAL EMERITUS OF THE INTERNATIONAL ATOMIC ENERGY AGENCY

STEVE FETTER

ASSOCIATE PROVOST, UNIVERSITY OF MARYLAND. FORMER PRINCIPAL ASSISTANT DIRECTOR FOR NATIONAL SECURITY AND INTERNATIONAL AFFAIRS, OFFICE OF SCIENCE AND TECHNOLOGY POLICY, UNITED STATES OF AMERICA

BEATRICE FIHN

EXECUTIVE DIRECTOR INTERNATIONAL CAMPAIGN TO ABOLISH NUCLEAR WEAPONS

CHRISTOPHER ASHLEY FORD

ASSISTANT SECRETARY OF STATE FOR INTERNATIONAL SECURITY AND NON-PROLIFERATION, UNITED STATES OF AMERICA



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FABIOLA GIANOTTI	DIRECTOR-GENERAL OF THE EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH
ROBIN GRIMES	MINISTRY OF DEFENCE NUCLEAR CHIEF SCIENTIFIC ADVISER. IMPERIAL COLLEGE LONDON, UNITED KINGDOM
RAFAEL GROSSI	PRESIDENT REVIEW CONFERENCE 2020, TREATY ON THE NON-PROLIFERATION OF NUCLEAR WEAPONS
JILL HRUBY	MEMBER OF THE BOARD OF XXI EDOARDO AMALDI CONFERENCE. SAM NUNN FELLOW, NUCLEAR THREAT INITIATIVE. FORMER DIRECTOR SANDIA NATIONAL LABORATORIES, UNITED STATES OF AMERICA
LI HUA	DIRECTOR OF THE PROGRAM FOR SCIENCE AND NATIONAL SECURITY STUDIES (PSNSS) AND FORMER DIRECTOR OF THE INSTITUTE OF APPLIED PHYSICS AND COMPUTATIONAL MATHEMATICS (IAPCM), PEOPLE'S REPUBLIC OF CHINA
YONGSOO HWANG	FORMER EXECUTIVE VICE PRESIDENT OF KOREA ATOMIC ENERGY RESEARCH INSTITUTE, REPUBLIC OF KOREA
RAYMOND JEANLOZ	CHAIR OF XXI EDOARDO AMALDI CONFERENCE AND OF THE COMMITTEE ON INTERNATIONAL SECURITY AND ARMS CONTROL AT THE NATIONAL ACADEMY OF SCIENCES. UNIVERSITY OF CALIFORNIA BERKELEY, UNITED STATES OF AMERICA
CAROLINE JORANT	FOUNDER STRATEGIE DE DEVELOPPEMENT ET REGLEMENTATIONS INTERNATIONALES CONSULTING, FRANCE
MICAH LOWENTHAL	DIRECTOR, COMMITTEE ON INTERNATIONAL SECURITY AND ARMS CONTROL, THE NATIONAL ACADEMY OF SCIENCES, UNITED STATES OF AMERICA
LUCIANO MAIANI	CHAIR OF XXI EDOARDO AMALDI CONFERENCE AND OF INTERNATIONAL SECURITY AND ARMS CONTROL WORKING GROUP AT THE ACCADEMIA NAZIONALE DEI LINCEI. SAPIENZA UNIVERSITY OF ROME, ITALY
MARCIA MCNUTT	PRESIDENT OF THE XXI EDOARDO AMALDI CONFERENCE AND PRESIDENT OF THE NATIONAL ACADEMY OF SCIENCES. UNITED STATES OF AMERICA



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RICHARD MIES	ADMIRAL (RETIRED), U.S. NAVY, FORMER COMMANDER OF STRATEGIC COMMAND, UNITED STATES OF AMERICA
ANTONIO MISSIROLI	ASSISTANT SECRETARY GENERAL FOR EMERGING SECURITY CHALLENGES, NORTH ATLANTIC TREATY ORGANIZATION
ENZO MOAVERO MILANESI	MINISTER OF FOREIGN AFFAIRS AND INTERNATIONAL COOPERATION, ITALY
FEDERICA MOGHERINI	HIGH REPRESENTATIVE OF THE UNION FOR FOREIGN AFFAIRS AND SECURITY POLICY, AND VICE-PRESIDENT OF THE EUROPEAN COMMISSION
MUHAMMAD NAEEM	CHAIRMAN OF THE PAKISTAN ATOMIC ENERGY COMMISSION, ISLAMIC REPUBLIC OF PAKISTAN
IZUMI NAKAMITSU	UNDER-SECRETARY-GENERAL AND HIGH REPRESENTATIVE FOR DISARMAMENT AFFAIRS, UNITED NATIONS
DAVID NUSBAUM	PERMANENT REPRESENTATIVE OF ISRAEL TO THE INTERNATIONAL ATOMIC ENERGY AGENCY AND COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION. ISRAEL ATOMIC ENERGY COMMISSION, ISRAEL
GIORGIO PARISI	PRESIDENT OF THE XXI EDOARDO AMALDI CONFERENCE AND PRESIDENT OF THE ACCADEMIA NAZIONALE DEI LINCEI. SAPIENZA UNIVERSITY OF ROME, ITALY
WOLFANGO PLASTINO	SCIENTIFIC SECRETARY OF XXI 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 EMERITUS OF THE ACCADEMIA NAZIONALE DEI LINCEI. CATHOLIC UNIVERSITY OF MILAN, ITALY
ALI AKBAR SALEHI	DIRECTOR OF THE ATOMIC ENERGY ORGANIZATION OF IRAN, ISLAMIC REPUBLIC OF IRAN
CARLO SCHAERF	MEMBER OF THE BOARD OF XXI EDOARDO AMALDI CONFERENCE AND OF INTERNATIONAL SECURITY AND ARMS CONTROL WORKING GROUP AT THE ACCADEMIA NAZIONALE DEI LINCEI. TOR VERGATA UNIVERSITY, ITALY



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TAMMY TAYLOR

DIRECTOR OF THE INTERNATIONAL DATA CENTRE DIVISION OF THE PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION

EDOARDO VESENTINI

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VLADIMIR YERMAKOV

DIRECTOR OF THE DIVISION ON NON-PROLIFERATION AND ARMS CONTROL OF THE MINISTRY OF FOREIGN AFFAIRS, RUSSIAN FEDERATION

VENUE OF THE CONFERENCE

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PALAZZO CORSINI – VIA DELLA LUNGARA 10
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