



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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NUCLEAR SAFETY, SECURITY, SAFEGUARDS AND NON-PROLIFERATION

ACCADEMIA NAZIONALE DEI LINCEI  
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UNDER THE PATRONAGE OF



*Ministero degli Affari Esteri  
e della Cooperazione Internazionale*



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## PROGRAM

### MONDAY, 7 OCTOBER

- 09.45 - 09.50      TRIBUTE TO H.E. AMB. YUKIYA AMANO  
FORMER DIRECTOR-GENERAL OF THE INTERNATIONAL ATOMIC ENERGY AGENCY
- WOLFANGO PLASTINO** – SCIENTIFIC SECRETARY OF THE XXI EDOARDO AMALDI  
CONFERENCE, ITALY
- 09.50 - 10.30      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  
**ELISABETTA BELLONI** – SECRETARY-GENERAL OF THE MINISTRY OF FOREIGN AFFAIRS  
AND INTERNATIONAL COOPERATION, ITALY  
**IZUMI NAKAMITSU** (BY VIDEO) – UNDER SECRETARY-GENERAL, UNITED NATIONS  
**FEDERICA MOGHERINI** (BY VIDEO) – *HR, EUROPEAN COMMISSION*  
**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

- 10.30 - 10.50      PROMOTING SECURITY AND PROSPERITY: HOW THE NON-PROLIFERATION REGIME AND  
THE SCIENTIFIC COMMUNITY CAN ADDRESS THE DEMANDS OF A CHANGING WORLD  
**MOHAMED ELBARADEI** – *DIRECTOR-GENERAL EMERITUS OF THE INTERNATIONAL ATOMIC  
ENERGY AGENCY (IAEA)*
- 10.50 - 11.10      SCIENCE FOR PEACE  
**FABIOLA GIANOTTI** – *DIRECTOR-GENERAL OF THE EUROPEAN ORGANIZATION FOR  
NUCLEAR RESEARCH (CERN)*
- 11.10 - 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

MESSAGE TO THE PARTICIPANTS OF THE XXI EDOARDO AMALDI CONFERENCE

**PAUL RICHARD GALLAGHER** – *SECRETARIAT OF STATE, HOLY SEE*

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 SECURITY AS NUCLEAR ARMS CONTROL CHANGES  
IN THE 2020s

**TIBOR TÓTH** – *EXECUTIVE SECRETARY EMERITUS CTBTO*

12.10 - 12.30

INTERESTS AND CHANGING NEEDS FROM ARMS CONTROL, DISARMAMENT, AND NON-  
PROLIFERATION FOR INTERNATIONAL SECURITY

**ROBIN GRIMES** – *RS AND MOD, UNITED KINGDOM*

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

**C. S. ELIOT KANG** – *STATE DEPARTMENT, UNITED STATES OF AMERICA*

14.35 - 14.55

RUSSIA'S VISION FOR ARMS CONTROL, DISARMAMENT, AND NON-PROLIFERATION

**VLADIMIR LEONTIEV** – *MFA, RUSSIAN FEDERATION*

14.55 - 15.15

PERSPECTIVES ON NUCLEAR SAFETY, SECURITY, SAFEGUARDS AND NON-PROLIFERATION

**LI HUA** – *CAEP, 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: **MARVIN ADAMS**

TEXAS A&M UNIVERSITY, 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** – *SNL, 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** – *MFA, ARGENTINE REPUBLIC*  
*NPT REVCON*

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  
**KAZEM GHARIB ABADI** – *MFA, 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

ADAPTING NON-PROLIFERATION APPROACHES TO A CHANGING WORLD: A EUROPEAN  
EXPERT'S VIEWPOINT  
**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

OPTIONS FOR ADDRESSING THE DPRK NUCLEAR PROGRAM  
**YOUNG-HO PARK** – *KPF, REPUBLIC OF KOREA*

12.10 - 12.30

REGIONAL RIVALRIES AND THEIR IMPLICATIONS FOR THE SECURITY AND NUCLEAR NON-  
PROLIFERATION REGIMES  
**PAOLO COTTA-RAMUSINO** – *PUGWASH*

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

ENGAGING SCIENTISTS CITIZENS, AND INTERNATIONAL YOUTH IN DIPLOMACY TO  
ABOLISH NUCLEAR WEAPONS  
**ALICIA SANDERS-ZAKRE – ICAN**

14.35 - 14.55

ITER PROJECT: INTERNATIONAL COOPERATION AND ENERGY INVESTMENT  
**SERGIO ORLANDI – ITER**

14.55 - 15.15

LIGO AND SCIENCE DIPLOMACY  
**BARRY BARISH – LIGO**

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**

**MARVIN ADAMS**

HTRI PROFESSOR OF NUCLEAR ENGINEERING AND ASSOCIATE DIRECTOR OF THE INSTITUTE FOR NATIONAL SECURITY AND CYBERSECURITY EDUCATION & RESEARCH AT THE TEXAS A&M UNIVERSITY SYSTEM, UNITED STATES OF AMERICA

**MASSIMO APARO**

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

**BARRY BARISH**

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

**ELISABETTA BELLONI**

SECRETARY-GENERAL OF THE MINISTRY OF FOREIGN AFFAIRS AND INTERNATIONAL COOPERATION, ITALY

**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 (IAEA)

**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

**KAZEM GHARIB ABADI**

PERMANENT REPRESENTATIVE OF ISLAMIC REPUBLIC OF IRAN TO THE INTERNATIONAL ATOMIC ENERGY AGENCY AND COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION. MINISTRY OF FOREIGN AFFAIRS, ISLAMIC REPUBLIC OF IRAN





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<b>PAUL RICHARD GALLAGHER</b>	SECRETARY FOR RELATIONS WITH STATES. SECRETARIAT OF STATE, HOLY SEE
<b>FABIOLA GIANOTTI</b>	DIRECTOR-GENERAL OF THE EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH (CERN), ITALY
<b>ROBIN GRIMES</b>	MINISTRY OF DEFENCE NUCLEAR CHIEF SCIENTIFIC ADVISER. THE ROYAL SOCIETY AND IMPERIAL COLLEGE LONDON, UNITED KINGDOM
<b>RAFAEL GROSSI</b>	PRESIDENT REVIEW CONFERENCE 2020, TREATY ON THE NON-PROLIFERATION OF NUCLEAR WEAPONS. MINISTRY OF FOREIGN AFFAIRS, ARGENTINE REPUBLIC
<b>JILL HRUBY</b>	SAM NUNN FELLOW, NUCLEAR THREAT INITIATIVE. FORMER DIRECTOR SANDIA NATIONAL LABORATORIES, UNITED STATES OF AMERICA
<b>RAYMOND JEANLOZ</b>	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
<b>CAROLINE JORANT</b>	FOUNDER STRATEGIE DE DEVELOPPEMENT ET REGLEMENTATIONS INTERNATIONALES CONSULTING, FRANCE
<b>C. S. ELIOT KANG</b>	PRINCIPAL DEPUTY ASSISTANT SECRETARY OF THE BUREAU OF INTERNATIONAL SECURITY AND NON-PROLIFERATION, U.S. DEPARTMENT OF STATE, UNITED STATES OF AMERICA
<b>VLADIMIR LEONTIEV</b>	DEPUTY-DIRECTOR OF THE DEPARTMENT ON NON-PROLIFERATION AND ARMS CONTROL OF THE MINISTRY OF FOREIGN AFFAIRS, RUSSIAN FEDERATION
<b>LI HUA</b>	DIRECTOR OF THE SCIENCE AND TECHNOLOGY COMMISSION, CHINA ACADEMY OF ENGINEERING PHYSICS (CAEP), PEOPLE'S REPUBLIC OF CHINA
<b>MICAH LOWENTHAL</b>	DIRECTOR OF THE COMMITTEE ON INTERNATIONAL SECURITY AND ARMS CONTROL, THE NATIONAL ACADEMY OF SCIENCES, UNITED STATES OF AMERICA



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<b>LUCIANO MAIANI</b>	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
<b>MARCIA MCNUTT</b>	PRESIDENT OF THE XXI EDOARDO AMALDI CONFERENCE AND PRESIDENT OF THE NATIONAL ACADEMY OF SCIENCES. UNITED STATES OF AMERICA
<b>ANTONIO MISSIROLI</b>	ASSISTANT SECRETARY GENERAL FOR EMERGING SECURITY CHALLENGES, NORTH ATLANTIC TREATY ORGANIZATION (NATO)
<b>FEDERICA MOGHERINI</b>	HIGH REPRESENTATIVE OF THE UNION FOR FOREIGN AFFAIRS AND SECURITY POLICY, AND VICE-PRESIDENT OF THE EUROPEAN COMMISSION
<b>MUHAMMAD NAEEM</b>	CHAIRMAN OF THE PAKISTAN ATOMIC ENERGY COMMISSION, ISLAMIC REPUBLIC OF PAKISTAN
<b>IZUMI NAKAMITSU</b>	UNDER-SECRETARY-GENERAL AND HIGH REPRESENTATIVE FOR DISARMAMENT AFFAIRS, UNITED NATIONS
<b>DAVID NUSBAUM</b>	PERMANENT REPRESENTATIVE OF ISRAEL TO THE INTERNATIONAL ATOMIC ENERGY AGENCY AND COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION. ISRAEL ATOMIC ENERGY COMMISSION, ISRAEL
<b>SERGIO ORLANDI</b>	HEAD OF THE PLANT ENGINEERING DEPARTMENT. INTERNATIONAL THERMONUCLEAR EXPERIMENTAL REACTOR (ITER), ITALY
<b>GIORGIO PARISI</b>	PRESIDENT OF THE XXI EDOARDO AMALDI CONFERENCE AND PRESIDENT OF THE ACCADEMIA NAZIONALE DEI LINCEI. SAPIENZA UNIVERSITY OF ROME, ITALY
<b>YOUNG-HO PARK</b>	DIRECTOR OF THE KOREA PEACE FOUNDATION. KOREA INSTITUTE FOR NATIONAL UNIFICATION (KINU), REPUBLIC OF KOREA
<b>WOLFANGO PLASTINO</b>	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
<b>ALBERTO QUADRIO CURZIO</b>	MEMBER OF THE BOARD OF XXI EDOARDO AMALDI CONFERENCE AND PRESIDENT EMERITUS OF THE ACCADEMIA NAZIONALE DEI LINCEI. CATHOLIC UNIVERSITY OF MILAN, ITALY



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- ALICIA SANDERS-ZAKRE** POLICY AND RESEARCH COORDINATOR, INTERNATIONAL CAMPAIGN TO ABOLISH NUCLEAR WEAPONS (ICAN)
- 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
- TAMMY TAYLOR** DIRECTOR OF THE INTERNATIONAL DATA CENTRE DIVISION OF THE PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION (CTBTO)
- TIBOR TÓTH** EXECUTIVE SECRETARY EMERITUS OF THE COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION (CTBTO)
- EDOARDO VESENTINI** MEMBER OF THE BOARD OF XXI EDOARDO AMALDI CONFERENCE AND OF INTERNATIONAL SECURITY AND ARMS CONTROL WORKING GROUP AT THE ACCADEMIA NAZIONALE DEI LINCEI. POLYTECHNIC UNIVERSITY OF TURIN, ITALY

VENUE OF THE CONFERENCE  
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PALAZZO CORSINI – VIA DELLA LUNGARA 10  
ROME  
[WWW.LINCEI.IT](http://WWW.LINCEI.IT)

SCIENTIFIC SECRETARY  
PROF. WOLFANGO PLASTINO  
[WOLFANGO.PLASTINO@UNIROMA3.IT](mailto:WOLFANGO.PLASTINO@UNIROMA3.IT)