





WORLD FEDERATION OF SCIENTISTS ICSC - WORLD LABORATORY

ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
TO PAY A PERMANENT TRIBUTE TO ARCHIMEDES AND GALILEO GALILEI, FOUNDERS OF MODERN SCIENCE
AND TO ENRICO FERMI, THE "ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES

INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES

49th Session

SCIENCE FOR PEACE THE WORLD OVER

THE NEW MANHATTAN PROJECT

Erice 19 – 24 August 2016

UNDER THE HIGH PATRONAGE
OF THE PRESIDENT OF THE REPUBLIC OF ITALY

SCIENCE AND CULTURE NEEDED IN THE III MILLENNIUM CLIMATE

THE SCIENCE OF COMPLEX NETWORKS NUCLEAR ENERGY AND SAFETY THE FUTURE OF CYBER SECURITY STUDIES IN CONFLICTS AND TERRORISM

ORGANIZING PLANETARY DEFENCE AGAINST COSMIC OBJECTS
CHILDREN WELFARE

HUMAN WELFARE IN AN ELDERLY SOCIETY
HUMAN AND SOCIAL MEDICINE
HEALTH AND ENVIRONMENT
RESEARCH ON NEURODEGENERATION AND DEMENTIA
SUSTAINABILITY

SCIENTIFIC RESEARCH AND DEVELOPMENT OF LIFE WATER CRISIS

PARTICIPANTS LIST

Chairman: A. Zichichi – Co-chairs T.D. Lee, M.J. Duff, H. Wenninger, T. Taylor Paul A.M. Dirac Lecture Hall – Patrick M.S. Blackett Institute **Professor Mona Al-Achkar Jabbour** Faculty of Law

Lebanese University

Pan Arab Observatory for Cyber Security

Beirut, **Lebanon**

Professor William A. BarlettaU.S. Particle Accelerator School, Fermilab

Department of Physics

Massachusetts Institute of Technology

Cambridge, MA, USA

Professor Roberto Bernabei Dipartimento di Scienze dell'Invecchiamento

Policlinico Gemelli-Roma

Roma, **Italy**

Dr. Michele Berlingerio IBM Research

Dublin, Ireland

Dr. Vladimir B. BritkovInstitute for Systems Analysis

Russian Academy of Sciences

Moscow, Russia

Dr. Robert J. BudnitzLawrence Berkeley National Laboratory

Earth Sciences Division Berkeley, CA, **USA**

Dr. Franco BuonaguroIstituto Nazionale dei Tumori

"Fondazione G. Pascale"

Napoli, **Italy**

Dr. Emanuele BurattiInternational Centre for Genetic Engineering

and Biotechnology

Trieste, Italy

Dr. Diego Buriot Senior Advisor WHO (Former)

Lyon, France

Professor Roberto CaciuffoEuropean Commission

Joint Research Centre

Institute for Transuranium Elements

Karlsruhe, **Germany**

Dr. Gina M. Calderone Environmental Chemical Corporation (ECC)

Marlborough, MA, USA

Professor Adelfio Elio Cardinale Vice-President of the Italian National

Council of Health, Rome, **Italy** and University of Palermo, Palermo, **Italy**

Professor Ignazio Carreca Medical Oncology-School of Medicine

Palermo, **Italy**

Professor Calogero CarusoDipartimento Patologia Generale

Università di Palermo

Palermo, Italy

Professor Alberto CellinoINAF-National Institute for Astrophysics

Torino, **Italy**

Dr. Nathalie Charpak Kangaroo Foundation

Bogotá, Colombia

Professor Luisa Cifarelli Department of Physics

University of Bologna Bologna, **Italy** and

Enrico Fermi Centre, Rome, Italy

Professor Andrea ContinDepartment of Physics

University of Bologna

Bologna, **Italy**

Professor Pierre Darriulat Vietnam National Satellite Centre

Vietnam Academy of Science and Technology

Hanoi, Vietnam

Dr. Socorro De Leon-Mendoza Kangaroo Mother Care Foundation

Manila, Philippines

Dr. Carmine DifiglioInternational Center for Energy and Climate

Sabanci University, Istanbul, **Turkey**

Colonel P. M. Mbareck Diop Science & Technology Advisor

to the President of Senegal (Former)

Dakar, **Senegal**

Professor Michael Duff Blackett Laboratory

Imperial College London

London, **UK**

Dr. Pavan Duggal Pavan Duggal Associates

Supreme Court of India

New Delhi, India

Professor Robert Duncan Texas Tech University

Lubbock, TX, USA

Dr. Philip A. Eckhoff EMOD Project/Global Good

Intellectual Ventures LLC

Bellevue, WA, **USA**

Professor Christopher Essex Department of Applied Mathematics

University of Western Ontario

London, ON, Canada

Dr. Lorne EverettLakehead University

Thunder Bay, **Canada** and L. Everett & Associates, LLC Santa Barbara, CA, **USA**

H.E. General Nicolò FalsapernaDeputy Secretary General of Defence and

Deputy National Armaments Director

Ministero della Difesa

Rome, **Italy**

Professor James S. FamigliettiNASA Jet Propulsion Laboratory

California Institute of Technology

Pasadena, CA, USA

Dr. Bertil Galland Writer and Historian

Buxy, France

Professor Bernardino Ghetti Department of Pathology & Laboratory

Medicine, Indiana University

Indianapolis, IN, USA

Dr. Ishwar Gilada AIDS Society of India (ASI)

Unison Medicare and Research Centre

Mumbai, **India**

Professor Giuseppe Gorini University of Milano-Bicocca

Milano, **Italy**

Dr. Walter M. Grayman W.M. Grayman Consulting Engineer

Cincinnati, OH, USA

Mr. Niklas Hedman UNOOSA-Space Law and Policy

United Nations Office Vienna, **Austria**

Dr. Udo Helmbrecht Executive Director

ENISA - European Agency for Network and

Information Security Agency Heraklion – Crete, **Greece** **Professor Michael Jefferson** ESCP Europe, Business School

London, **UK**

Dr. Hisham Khatib World Energy Council

Amman, Jordan

Dr. Erwin Knupp Executive Bank Director (Former)

Geneva, Switzerland

Dr. Edward Kobal Slovenian Scientific Foundation

Ljubljana, **Slovenia**

Dr. Vasiliy KrivokhizhaThe Institute of the US and Canadian Studies

Russian Academy of Sciences

Moscow, Russia

Dr. Dan J. Kroll Hach Homeland Security Technologies

Loveland, CO, USA

Dr. Valery P. KukharUkrainian Academy of Sciences

Laboratory of Fine Organic Synthesis

Kiev, **Ukraine**

Professor Askar Kutanov National Academy of Sciences

Regional Coordinator for EC CAREN Project

Bishkek, **Kyrgyz Republic**

Professor Axel Lehmann Institute for Technical Computer Sciences

University Munich Munich, **Germany**

Dr. Sally Leivesley Newrisk Limited London

London, **UK**

Professor Richard S. Lindzen Earth, Atmospheric & Planetary Sciences

Massachusetts Institute of Technology

Cambridge, MA, USA

Professor Alessio Malcevschi Department of Life Sciences

University of Parma

Parma, **Italy**

Eng. Claude Manoli ICSC-World Laboratory and World Federation

of Scientists

Geneva, Switzerland

Dr. Diego MarazzaCIRSA Research Centre for Environmental

Sciences

Ravenna, **Italy**

Professor Sergio Martellucci Università degli Studi di Roma "Tor Vergata"

Rome, Italy

Professor Tatsuo Masuda The Graduate School

Nagoya University Commerce and Business

Tokyo, **Japan**

Professor Sam Mbulaiteye National Institutes of Health/NCI/DCEG

Infections and Immuno-epidemiology Branch

Bethesda, MD, **USA**

Dr. Charles McCombie Arius Association

Gipf-Oberfrick, Switzerland

Professor Stephen McIntyre University of Guelph

Guelph, ON, Canada

Dr. Ross McKitrick Department of Economics and Finance

University of Guelph Guelph, ON, **Canada**

Professor Mario Mirisola Scienza della Nutrizione

Università di Palermo

Palermo, **Italy**

Dr. Alan Leigh Moore Research Institute

Von Braun Research Hall

The University of Alabama in Huntsville

Huntsville, AL, USA

Dr. John Peterson Myers Environmental Health Sciences

Charlottesville, VA, **USA**

Dr. André NaudiDirector of Finance and

Human Resources (Former) CERN, Geneva, **Switzerland**

Dr. Anita Nilsson AN & Associates LLC

Uppsala, Sweden

Professor SunKun Oh Department of Physics

Konkuk University

Seoul, Korea

Dr. Jef Ongena Plasmaphysics Laboratory

Ecole Royale Militaire Brussels, **Belgium**

Professor Paola PalanzaDipartimento di Biologia Evolutiva e Funzionale

Università di Parma

Parma, Italy

Professor Frank Leon Parker Department of Environmental Engineering

Vanderbilt University Nashville, TN, **USA**

Professor Stefano Parmigiani Department of Biology

University of Parma

Parma, **Italy**

Professor Annibale Puca Dipartimento Patologia Generale

Università di Salerno

Salerno, Italy

Professor Richard Ragaini Department of Environmental Protection

University of California Livermore, CA, **USA**

Professor Nusrat Rajabov Department of Mechanics and Mathematics

Tajik State University Dushanbe, **Tajikistan**

Dr. Keywan RiahiInternational Institute for Applied System

Analysis

Laxenburg, Austria

Dr. Giancarlo Righini Enrico Fermi Center, Rome, **Italy** *and*

Institute of Applied Physics (IFAC)

Florence, **Italy**

Dr. Hans-Holger Rogner Department of Nuclear Energy

International Atomic Energy Agency (IAEA)

Vienna, Austria

Dr. Juan Gabriel RuizDepartment of Medical and Population Health

Sciences Research

Herbert Wertheim College of Medicine

Florida International University

Miami, FL, **USA**

Professor Antonio Russo Oncologia Medica

Università di Palermo

Palermo, **Italy**

Professor Paul SavaColorado School of Mines

Golden, CO, USA

Dr. Robert N. SchockCenter for Global Security Research

Lawrence Livermore National Laboratory

Livermore, CA, USA

Professor Eckehard Schöll Theoretical Physics

Technical University of Berlin

Berlin, **Germany**

Dr. Giusto SciarabbaThe Academy of Sciences for the Developing

World, TWAS Trieste, **Italy**

Dr. Adnan Shihab-EldinKuwait Foundation for the Advancement

of Sciences Safat, **Kuwait**

Professor Annette SobelTexas Tech University

Lubbock, TX, USA

Professor Friedrich Steinhäusler Physics and Biophysics Division

University of Salzburg Salzburg, **Austria**

Dr. Bruce Stram Element Markets

Houston, TX, USA

Professor Gheorghe StratanNational Institute of Physics and Nuclear

Engineering

Bucharest-Magurele, Romania

Dr. Maria Street IRCCS, division of Pediatric Endocrinology

and Diabetes, Arcispedale S. Maria Nuova

Reggio Emilia, Italy

Professor Jan SzyszkoMinister of Environment

Warsaw, **Poland**

Professor Thomas Taylor CERN

Geneva, Switzerland

Dr. Hamadoun Touré Smart Africa

Kigali, **Rwanda** and Former Secretary General

International Telecommunication Union (ITU)

Geneva, Switzerland

Professor Anastasios A. Tsonis Department of Mathematical Sciences

University of Wisconsin-Milwaukee

Milwaukee, WI, **USA**

Dr. Giovanni B. Valsecchi Institute for Astrophysics and Space

Planetology, INAF - IAPS

Rome, Italy

Professor Carlo VancheriRegional Referral Centre for Rare Lung

Disease, University of Catania

Catania, Italy

Professor Zeblon Vilakazi University of the Witwatersrand

Johannesburg, South Africa

Dr. Julieta Villegas Kangaroo Foundation

Bogotá, Colombia

Professor Frederick S. vom SaalDivision of Biological Sciences

University of Missouri Columbia, MO, **USA**

Professor Lucia Votano Laboratori Nazionali di Frascati-INFN

Frascati, **Italy**

Dr. Henning Wegener Ambassador of Germany (ret.)

Information Security Permanent Monitoring

Panel, World Federation of Scientists

Berlin, **Germany**

Dr. Horst Wenninger Research Director (Former)

CERN.

Geneva, Switzerland

Dr. Crispin WilliamsAdvanced Technology for Young Scientists

from Developing Countries

CERN

Geneva, Switzerland

Dr. Lydia Wilson Centre for the Resolution of Intractable

Conflict

Harris Manchester College

Oxford, **UK**

Dr. Lowell Wood Hoover Institution, Stanford University,

Stanford, CA, USA (ret.), and

University of California Lawrence Livermore National Laboratory, Livermore, CA, **USA** (ret.)

Professor Maw-Kuen Wu National Dong Hwa University

> Foreign Associate Hualien, Taiwan

Dr. Anatoly V. Zaitsev Planetary Defense Center

Moscow, Russia

Department of Neurological, **Professor Gianluigi Zanusso**

Biomedical and Movement Sciences

University of Verona, Policlinico G.B. Rossi

Verona, **Italy**

Professor Antonino Zichichi University of Bologna and INFN, Italy

> Enrico Fermi Centre, Rome, Italy CERN, Geneva, Switzerland

Pontifical Academy of Science, The Vatican

Professor Thomas Zoeller Department of Biology

University of Massachusetts

Amherst, MA, USA