INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES

49th Session

SCIENCE FOR PEACE THE WORLD OVER

THE NEW MANHATTAN PROJECT

Erice 20 – 23 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

Chair 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
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# Synthesis of Sessions and Times

## Saturday, 20 August 2016

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## Sunday, 21 August 2016

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**Monday, 22 August 2016**

- 9:30 – 13:30 **Session 8 + 9**
- 13:30 – 15:30 Lunch Break
- 15:30 – 19:30 **Session 10 + 11 + 12**

**Tuesday, 23 August 2016**

- 9:30 – 13:30 **Session 13 + 14**
- 13:30 – 15:30 Lunch Break
- 15:30 – 19:30 **Session 15 + Closing Lecture**
**OPENING LECTURE**

*Science for Peace the World Over*

*The New Manhattan Project*

Antonino Zichichi

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**SESSION 1:**

**SCIENCE AND CULTURE NEEDED IN THE III MILLENNIUM**

Chair A. Zichichi

Co-chairs T.D. Lee, M.J. Duff, H. Wenninger, T. Taylor

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**SESSION 2:**

**CLIMATE**

Chair A. Zichichi – Co-chair J. Szyszko

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**SESSION 3:**

**THE SCIENCE OF COMPLEX NETWORKS**

Chair A. Zichichi – Co-chairs R. Schock, E. Schöll
SESSION 4:
NUCLEAR ENERGY AND SAFETY
Chair A. Zichichi – Co-chairs C. Difiglio, R.G.M. Caciuffo

SESSION 5:
THE FUTURE OF CYBER SECURITY
Chair A. Zichichi – Co-chair H. Touré

SESSION 6:
STUDIES IN CONFLICTS AND TERRORISM
Chair A. Zichichi – Co-chairs A. Sobel, F. Steinhäusler

SESSION 7:
ORGANIZING PLANETARY DEFENCE AGAINST COSMIC OBJECTS
Chair A. Zichichi – Co-chairs A. Cellino, N. Hedman

SESSION 8:
CHILDREN WELFARE
Chair A. Zichichi – Co-chairs N. Charpak S. Parmigiani, F.S. Vom Saal
SESSION 9:
HUMAN WELFARE IN
AN ELDERLY SOCIETY
Chair A. Zichichi – Co-chair Sun Kun Oh

SESSION 10:
HUMAN AND SOCIAL MEDICINE
Chair A. Zichichi – Co-chair A.E. Cardinale

SESSION 11:
HEALTH AND ENVIRONMENT
Chair A. Zichichi – Co-chairs F. Buonaguro, L. Wood

SESSION 12:
RESEARCH ON
NEURODEGENERATION AND
DEMENTIA
Chair A. Zichichi – Co-chair B. Ghetti
SESSION 13:
SUSTAINABILITY
Chair A. Zichichi – Co-chairs A. Malcevschi, J.P. Myers

SESSION 14:
SCIENTIFIC RESEARCH AND DEVELOPMENT OF LIFE
Chair A. Zichichi – Co-chair C.M.S. Williams

SESSION 15:
WATER CRISIS
Chair A. Zichichi – Co-chair L. Everett

CLOSING LECTURE
Professor Antonino Zichichi
INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES
49th Session
Under the High Patronage of the President of the Republic of Italy

SCIENCE FOR PEACE THE WORLD OVER
THE NEW MANHATTAN PROJECT

PROGRAMME
OF
PLENARY SESSIONS
Saturday, 20 August 2016

09:30 – 10:30 (Opening)

OPENING LECTURE

Science for Peace the World Over
The New Manhattan Project

Professor Antonino Zichichi
University of Bologna and INFN; Enrico Fermi Centre, Rome, Italy
CERN, Geneva, Switzerland; Pontifical Academy of Science, The Vatican

10:30 – 13:30 (Session 1)

SESSION 1:

SCIENCE AND CULTURE NEEDED
IN THE III MILLENNIUM

Chair A. Zichichi
Co-chairs T.D. Lee, M.J. Duff, H. Wenninger, T. Taylor

Managing Large Projects that Depend on New Technology: The CERN Approach

ONGOING PROJECT 1

Project Coordinator and Speaker
Professor Thomas Taylor – CERN, Geneva, Switzerland

The LAA Project

ONGOING PROJECT 2

Project Coordinators and Speakers
Professor Antonino Zichichi and Professor Horst Wenninger – CERN, Geneva, Switzerland
INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES
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SCIENCE FOR PEACE THE WORLD OVER
THE NEW MANHATTAN PROJECT

Saturday, 20 August 2016

SESSION 1 cont'd

THE ELOISATRON PROJECT
ONGOING PROJECT 3

Project Coordinators and Speakers
Professor Antonino Zichichi and Professor William A. Barletta – U.S. Particle Accelerator School Department of Physics, Massachusetts Institute of Technology, Cambridge, MA, USA

The International and National Scholarships Project
ONGOING PROJECT 4

Project Coordinator and Speaker
Professor Antonino Zichichi

Extreme Energy Events
ONGOING PROJECT 5

Project Coordinators and Speakers
Professor Antonino Zichichi, Professor Luisa Cifarelli – Department of Physics, University of Bologna, Italy and Dr. Giancarlo Righini – Enrico Fermi Center, Roma and Institute of Applied Physics (IFAC), Firenze, Italy

13:30 – 15:30 LUNCH BREAK
SESSION 2: CLIMATE
Chair A. Zichichi – Co-chair J. Szyszko

The Polish Scientific Strategy on Climate
ONGOING PROJECT 6

Project Coordinator and Speaker
Professor Jan Szyszko – Minister of Environment, Poland

* Climate policy as a chance for sustainable development in the light of the Encyclical of the Holy Father Francis “Laudato sii” and the Paris Agreement. The Polish point of view

What Science could do in Climate
PRELIMINARY PROJECT 24

Project Coordinator
Professor Christopher Essex

Topics and Speakers

* Computation as a substitute for a nonexistent theory and data free empiricism
Professor Christopher Essex – Department of Applied Mathematics, University of Western Ontario, London, ON, Canada

* Empirical methods for testing climate models against observations
Dr. Ross McKittrick – Department of Economics and Finance, University of Guelph, ON, Canada

* Glimpsing short term climate beyond data and model limitations by capturing slow modes
Professor Anastasios Tsonis – Department of Mathematical Sciences, University of Wisconsin-Milwaukee, Milwaukee, WI, USA
SESSION 3: THE SCIENCE OF COMPLEX NETWORKS
Chair A. Zichichi – Co-chairs R. Schock, E. Schöll

Control Planetary Emergencies Using the Science of Complex Networks

PROJECT 9

Project Coordinators
Dr. Robert Schock and Professor Dr. Eckehard Schöll

Topics and Speakers

* Why the Science of complex networks fits in a New Manhattan Project
  Dr. Robert Schock – Center for Global Security Research, Livermore, CA, USA

* The Science of complex networks
  Professor Dr. Eckehard Schöll – Theoretical Physics, Technical University of Berlin, Germany

* Integrated assessment modeling
  Professor Keywan Riahi – International Institute for Applied Systems Analysis, Laxenburg, Austria

* Smarter urban dynamics
  Dr. Michele Berlingerio – IBM Research, Dublin, Ireland

* Catastrophic risk and security
  Dr. Sally Leivesley – Newrisk Limited, London, UK
SESSION 4:  
NUCLEAR ENERGY AND SAFETY 
Chair A. Zichichi – Co-chairs C. Difiglio, R.G.M. Caciuffo 

Nuclear Safety Centre:  
A priority for the New Manhattan Project 

PROJECT 10 

Project Coordinators 
Professor William A. Barletta, Professor Carmine Difiglio and Dr. Hans-Holger Rogner 

Topics and Speakers 

* Options for establishing a New Manhattan Project Nuclear Safety Centre  
Professor Carmine Difiglio – Istanbul International Center for Energy and Climate, Sabanci University, Istanbul, Turkey 

* Achieving a stronger international safety regime  
Dr. Hans-Holger Rogner – International Institute for Applied Systems Analysis, Vienna, Austria 
Dr. Adnan Shihab-Eldin – Kuwait Foundation for the Advancement of Sciences, Safat, Kuwait 

* Why the culture of safety is a critical concern for the future expansion of nuclear power  
Dr. Robert Budnitz – Lawrence Berkeley National Laboratory, Berkeley, CA, USA 

* Vulnerabilities of existing and planned nuclear infrastructure to terrorism or sabotage  
Dr. Anita Nilsson – AN & Associates LLC, Uppsala, Sweden 

* Wrap up comment  
Dr. Adnan Shihab-Eldin – Kuwait Foundation for the Advancement of Sciences, Safat, Kuwait 
Dr. Charles McCombie – Arius Association, Gipf-Oberfrik, Switzerland 
Professor William A. Barletta – Massachusetts Institute of Technology, Cambridge, MA, USA
SESSION 4 cont'd

Novel Technology for Nuclear Safeguards, Security and Nonproliferation

PROJECT 11

Project Coordinators
Professor Carla Andreani, Professor Roberto G.M. Caciuffo and Professor Giuseppe Gorini

Topics and Speakers

* **Improving Resilience to Radiological Threats**
  Professor Roberto G.M. Caciuffo – European Commission Joint Research Centre Institute for Transuranium Elements, Karlsruhe, Germany

* **Neutron Detectors for Nuclear Safeguards Applications**
  Professor Giuseppe Gorini – University of Milano Bicocca, Milano, Italy

* **Fast Neutron Interrogation Devices for Nuclear Security Applications**
  Professor Roberto G.M. Caciuffo – European Commission Joint Research Centre Institute for Transuranium Elements, Karlsruhe, Germany
Sunday, 21 August 2016

12:30 – 13:30 (Session 5)

SESSION 5:
THE FUTURE OF CYBER SECURITY
Chair A. Zichichi – Co-chair H. Touré

Development, Analysis and Evaluation of Cyber Resilience Strategies

PROJECT 12

Project Coordinators and Speakers
Professor Axel Lehmann – Munich University, Institute for Technical Computer Sciences, Munich, Germany
Professor Udo Helmbrecht – ENISA–European Agency for Network and Information Security Agency, Heraklion, Greece

The Cyber World in 2030

PRELIMINARY PROJECT 25

Project Coordinators and Speakers
Dr. Hamadoun Touré – SMART Africa Secretariat, Kigali, Rwanda and Former Secretary General, International Telecommunication Union (ITU) Geneva, Switzerland and
Dr. Pavan Duggal, Supreme Court of India, New Delhi, India

The Normative Challenges of Cyber Security: Prerequisites of a Universal Secure of Cyber Space

PRELIMINARY PROJECT 26

Project Coordinator and Speaker
Ambassador Henning Wegener – Berlin, Germany

13:30 – 15:30 LUNCH BREAK
Sunday, 21 August 2016

15:30 – 17:30 (Session 6)

SESSION 6:
STUDIES IN CONFLICTS AND TERRORISM
Chair A. Zichichi – Co-chairs A. Sobel, F. Steinhäusler

Young People’s Radicalization and Terrorism
PRELIMINARY PROJECT 27

Project Coordinators
Lord John Alderdice – Centre for the Resolution of Intractable Conflict Harris Manchester College, Oxford, UK
and Dr. Lydia Wilson

Speaker
Dr. Lydia Wilson – Centre for the Resolution of Intractable Conflict Harris Manchester College, Oxford, UK

Countering Terrorism Threats in Smart Cities:
A concept Demonstration Using Unmanned Aircraft System (UAS) to Protect Critical Infrastructure
PROJECT 13

Project Coordinators
Professor Annette Sobel and Professor Friedrich Steinhäusler

Topics and Speakers
* **A concept demonstration using UAS to protect critical infrastructure**
  Professor Annette Sobel – Texas Tech University, Lubbock, TX, USA
  Professor Friedrich Steinhäusler – Physics and Biophysics Division, University of
  Salzburg, Austria

* **Overview of energy critical infrastructure**
  Professor Robert Duncan – Texas Tech University, Lubbock, TX, USA

* **UAS platforms for surveillance for critical infrastructure protection**
  Dr. Alan Leigh Moore – Research Institute Von Braun Research Hall, The University
  of Alabama in Huntsville, Huntsville, AL, USA
Sunday, 21 August 2016

17:30 – 19:30 (Session 7)

SESSION 7:
ORGANIZING PLANETARY DEFENCE AGAINST COSMIC OBJECTS
Chair A. Zichichi – Co-chairs A. Cellino, N. Hedman

Organizing Earth Defence:
An International Conference to make First Operative Steps

PROJECT 14

Project Coordinator
Professor Alberto Cellino

Topics and Speakers

* General information
Professor Alberto Cellino – INAF-National Institute for Astrophysics, Torino, Italy

* The NEO Hazard and how we deal with it
Professor Giovanni B. Valsecchi – INAF-National Institute for Astrophysics, Rome, Italy

* Citadel: A concept for a credible defense system
Dr. Anatoly V. Zaitsev – Planetary Defense Centre, Moscow, Russia

* 3D interior tomography of comets and asteroids
Professor Paul Sava – Colorado Schools of Mines, Golden, CO, USA

* Global Space governance and Space security: The role of UNOOSA
Dr. Niklas Hedman – UNOOSA-Space Law and Policy, United Nations Office, Vienna, Austria

* Presentation of a Project for the NMP
Professor Alberto Cellino – INAF-National Institute for Astrophysics, Torino, Italy
SESSION 8: CHILDREN WELFARE

Chair A. Zichichi – Co-chairs N. Charpak, S. Parmigiani, F.S. Vom Saal

Interdisciplinary Research Centre of Excellence for Children Welfare

PRELIMINARY PROJECT 31

Epidemiological and Laboratory Findings on Metabolic and Neurobehavioral Disorders due to Fetal and Infant Exposure to Hormonal Disruptors: Hypotheses Generation and Evaluation

PROJECT 15

Topics and Speakers

* Phthalate metabolites in urine and age-related changes in adiposity and insulin sensitivity in childhood
  Dr. Maria E. Street – IRCCS, Division of Pediatric Endocrinology and Diabetes, Arcispedale S. Maria Nuova, Reggio Emilia, Italy

* Environmental chemicals targeting thyroid hormone levels in the human placenta
  Professor Thomas Zoeller – Department of Biology, University of Massachusetts, Amherst, MA, USA
**SESSION 8 cont'd**

* Effects late in life of early exposure to hormonal disruptors and/or culturally impoverished social environment: Proposals for action
  Dr. Juan G. Ruiz – Department of Medical and Population Health Sciences Research, Herbert Wertheim College of Medicine, Florida International University, Miami, FL, USA

Global Emergency of Premature and Low Birth Weight Infant Mortality: KMC Strategy as a Solution?

**PROJECT 16**

Project Coordinator
Dr. Nathalie Charpak

Topics and Speakers

* Born to die in the first month of life: Inequities and social disparities
  Dr. Socorro De León Mendoza – Kangaroo Mother Care Foundation, Manila, Philippines
  Dr. Nathalie Charpak – Kangaroo Foundation, Bogotá, Colombia

* Universal access to Kangaroo Mother Care
  Dr. Julieta Villegas – Kangaroo Foundation, Bogotá, Colombia
  Dr. Nathalie Charpak – Kangaroo Foundation, Bogotá, Colombia
Monday, 22 August 2016

12:30 – 13:30 (Session 9)

SESSION 9:
HUMAN WELFARE IN AN ELDERLY SOCIETY
Chair A. Zichichi – Co-chair Sun Kun Oh

The Welfare in an Aging Society
PRELIMINARY PROJECT 29

Project Coordinators
Professor Sun Kun Oh and Professor Ignazio Carreca

Topics and Speakers

* Elder Society: Asset or Burden?
Professor Sun Kun Oh – Department of Physics, Konkuk University, Seoul, South Korea

* Cancer, Metabolic Disfunctions and Nutritional Issues in Elderly People
Professor Ignazio Carreca – Medical Oncology School of Medicine, Palermo, Italy

13:30 – 15:30 LUNCH BREAK
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THE NEW MANHATTAN PROJECT

Monday, 22 August 2016

15:30 – 16:00 (Session 10)

SESSION 10:
HUMAN AND SOCIAL MEDICINE
Chair A. Zichichi – Co-chair A.E. Cardinale

The Institution of an Advanced School for Human and Social Medicine
PRELIMINARY PROJECT 28

Project Coordinator and Speaker
Professor Adelfio E. Cardinale – Vice-President of the Italian National Council of Health, Rome, and University of Palermo, Palermo, Italy

16:00 – 18:00 (Session 11)

SESSION 11:
HEALTH AND ENVIRONMENT
Chair A. Zichichi – Co-chairs F. Buonaguro, L. Wood

Biomonitoring:
Exposure to Chemicals and Cancer Development. Investigations in “Terra dei Fuochi”
PROJECT 17

Project Coordinator and Speaker
Professor Franco Buonaguro – Istituto Nazionale Tumori “Fondazione G. Pascale”, Napoli, Italy
INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES
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SCIENCE FOR PEACE THE WORLD OVER
THE NEW MANHATTAN PROJECT

Monday, 22 August 2016

SESSION 11 cont’d

Research on Oncogenic and Emerging/re-Emerging Infectious Diseases

PROJECT 18

Project Coordinator
Professor Franco Buonaguro

Topics and Speakers

* Infectious Diseases in Asia: Looking Back, Looking Forward
  Dr. Ishwar Gilada – President AIDS Society of India (ASI), Unison Medicare and Research Centre, Maharukh Mansion, Mumbai, India

* Infectious Diseases in Africa: from HIV to Zika. Discoveries and benefits to local population
  Professor Sam M. Mbulaiteye – National Institutes of Health/NCI/DCEG Infections and Immuno-epidemiology Branch, Bethesda, MD, USA

* Toolsets for Defeating Both Epidemic and Endemic Infectious Diseases
  Dr. Philip A. Eckhoff – EMOD Project/Global Good Intellectual Ventures LLC, Bellevue, WA, USA
  Professor Lowell Wood – University of California, Lawrence Livermore National Lab, Livermore and Hoover Institution, Stanford University, Stanford, USA (ret.) Bill & Melinda Gates Foundation, Seattle and Koch Institute, MIT, Cambridge, MA, USA
Monday, 22 August 2016

18:00 – 19:30 (Session 12)

SESSION 12:
RESEARCH ON NEURODEGENERATION AND DEMENTIA
Chair A. Zichichi – Co-chair B. Ghetti

Neurodegeneration and Dementia: The Research Centre in The New Manhattan Project

PROJECT 19

Project Coordinators
Professor Bernardino Ghetti and Dr. Emanuele Buratti

Topics and Speakers

* **Prion disorders and the two faces of Janus: Neurodegeneration and infectivity**
  Dr. Gianluigi Zanusso – Department of Neurological, Biomedical and Movement Sciences, University of Verona, Italy

* **The role of RNA binding proteins and RNA metabolism in neurodegeneration, from TDP-43 to progranulin and C9orf72**
  Dr. Emanuele Buratti – International Centre for Genetic Engineering and Biotechnology, Trieste, Italy

* **TAU protein: Crossroad for neurodegenerative dementias**
  Professor Bernardino Ghetti – Department of Pathology and Laboratory Medicine, Indiana University, Indianapolis, IN, USA
Tuesday, 23 August 2016

09:30 – 12:30 (Session 13)

SESSION 13: SUSTAINABILITY
Chair A. Zichichi – Co-chairs A. Malcevschi, J.P. Myers

Sustainability and Scientific Culture: A Challenge for the Future
PRELIMINARY PROJECT 32

Project Coordinator and Speaker
Professor Alessio Malcevschi – Department of Life Sciences, University of Parma, Italy
and Professor Stefano Parmigiani

Circular Economy Patterns and the Bio-economy:
General Principles and Specific Applications in Organic Waste Treatment
PROJECT 20

Project Coordinator
Professor Andrea Contin

Topics and Speakers
* The potential of the bio-economy and the consequent transition towards circular economy patterns
Dr. Diego Marazza – CIRSA Inter-Dept. Research Centre for Environmental Science, Ravenna, Italy

* Upgraded pyrolysis for organic wastes treatment
Professor Andrea Contin – Department of Physics, University of Bologna, Italy
Tuesday, 23 August 2016

SESSION 13 cont'd

Risk Evaluation for Agricultural Chemicals of Emerging Concern on Food Safety and Human Health

PROJECT 21

Project Coordinators
Professor John Peterson Myers, Professor Stefano Parmigiani and Professor Frederick S. Vom Saal

Topics and Speakers

* Anticipating interactions among converging biogeochemical forces and human society
  Professor John Peterson Myers – Environmental Health Science, Charlottesville, VA, USA

* Endocrine disruption in the age of planetary changes
  Professor Thomas Zoeller – Department of Biology, University of Massachusetts, Amherst, MA, USA

* Implications for society of accumulative exposures to mixtures of chemicals
  Professor Frederick S. Vom Saal – Division of Biological Science, University of Missouri, Columbia, MO, USA

The Great Green Wall
From Senegal to Djibouti, the Great Green Wall against Desertification

PROJECT 22

Project Coordinator and Speaker
Colonel P.M. Mbareck Diop – Technical Advisor to the President of Senegal, Dakar, Senegal
Tuesday, 23 August 2016

12:30 – 13:30 (Session 14)

SESSION 14:
SCIENTIFIC RESEARCH AND
DEVELOPMENT OF LIFE
Chair A. Zichichi – Co-chair C.M.S. Williams

Precise Timing for Medical Physics
ONGOING PROJECT 7

Project Coordinator and Speaker
Dr. Crispin M.S. Williams – INFN, Bologna, Italy and Advanced Technology for Young Scientists from Developing Countries – CERN, Geneva, Switzerland

13:30 – 15:30 LUNCH BREAK

15:30 – 17:30 (Session 15)

SESSION 15:
WATER CRISIS
Chair A. Zichichi – Co-chair L. Everett

Linking Knowledge to Action:
Building a Support Network for Safe Drinking Water and Sanitation
PRELIMINARY PROJECT 30

Project Coordinator and Speaker
Professor Giusto Sciarabba – TWAS & IAP, Trieste, Italy
Worl Water Crisis Centre Proposal: The GRACE Satellite

Project Coordinators
Chancellor Lorne Everett and Dr. James Famiglietti

Topics and Speakers

* World Water Crisis Centre Proposal
  Chancellor Lorne Everett – L. Everett & Associates LLC, Santa Barbara, CA, USA
  Dr. Frank Parker – Department of Environmental Engineering Vanderbilt University, Nashville, TN, USA

* Drought Mitigation Through Water Management
  Dr. Walter Grayman – Consulting Engineer, Cincinnati, OH, USA

* The GRACE Satellite and the World Water Crisis
  Dr. James Famiglietti - NASA California Institute of Technology, Pasadena, CA, USA

17:30 – 19:30

CLOSING LECTURE
Professor Antonino Zichichi