

# CURRICULUM VITA

## PROF. COSTAS N. PAPANICOLAS

### PERSONAL INFORMATION

Name: Costas N. Papanicolas

Nationality: Cypriot

Date of Birth: October 1<sup>st</sup>, 1950

Address: The Cyprus Institute  
20 Konstantinou Kavafi Str.  
Aglantzia 2121, Cyprus

Telephone: +357 22 208703  
email: [president@cyi.ac.cy](mailto:president@cyi.ac.cy)  
[cnp@cyi.ac.cy](mailto:cnp@cyi.ac.cy)



### EDUCATION

- B.Sc. in Physics  
Massachusetts Institute of Technology, 1972
- Ph.D. in Nuclear Physics  
Massachusetts Institute of Technology, 1979

### COMPETENCIES

*SCIENTIFIC* In the area of particle, nuclear, medical, solar and accelerator physics with active research interests in the area of Nuclear – Particle Physics, Medical Physics, Solar Energy and Energy Policy

*HIGHER EDUCATION* In the planning, evaluation, integration, and strategic management and of tertiary education.

### PROFESSIONAL APPOINTMENTS

- AUG 89 – AUG 94 Professor of Physics at the University of Illinois at Urbana-Champaign USA.
- AUG 94 – PRESENT Adjunct Professor of Physics at the University of Illinois at Urbana-Champaign USA.
- MAY 90 – AUG 17 Professor of Nuclear and Particle Physics at the University of Athens, Greece.

JAN 95 – DEC 09	Director of the Institute of Accelerating Systems and Applications, Athens Greece.
AUG 96 – SEPT 04	Visiting Professor at the Massachusetts Institute of Technology.
JUN 07 – PRESENT	CEO of the Cyprus Research and Educational Foundation and Founding President of the Cyprus Institute
MAY 19 – PRESENT	Advisor to the President of the Republic of Cyprus and Special Envoy on Climate Change

## MANAGERIAL AND ADMINISTRATIVE DUTIES

SCIENTIFIC COORDINATOR	<b>Electron Scattering Group of the Nuclear Physics Lab, University of Illinois (Urbana - Champaign) (1983-1990).</b> <i>Defining and overseeing the implementation of the scientific program of the group. Planning and construction of complicated state of the art equipment.</i>
SCIENTIFIC SPOKESMAN AND COORDINATOR	<b>OOPS (Out-Of-Plane Spectrometry) collaboration at the MIT/Bates Linear Accelerator Center (1988-1996)</b> <i>Coordinated both the construction of a very complicated scientific equipment and its utilization for physics research. The OOPS collaboration was the biggest and most productive in the history of the MIT/Bates Accelerator Center.</i>
DIRECTOR	<b>Institute of Accelerating Systems and Applications (IASA) (1996-2010)</b> <i>IASA a joint facility of the University of Athens and the National Technical University of Athens, is the largest University based Research Institute in Greece. The Director of IASA is appointed by a joint decision of the Senates of the two Universities. C. N. Papanicolas was the Founding Director of IASA.</i>
DIRECTOR	<b>Physics Laboratory of the Physics Department of the University of Athens</b> <i>The "Physics Laboratory" is the largest teaching laboratory in the School of Natural Sciences of the University of Athens</i>
MEMBER OF IGB AND CO-CHAIR OF TECHNICAL COMMITTEE	<b>SESAME (Synchrotron Light for Experimental Science and Applications in the Middle East).</b> <i>Participated in the Founding (Interim Governing) Board and co-chaired with Prof. VG. Voss (DESY). SESAME is</i>

*the International Research Center, operating under the auspices of UNESCO in Jordan.*

CHAIR **Appointments Committee, for the establishment of the Department of Natural Sciences of the University of Cyprus.**

*Out of these appointments three Departments developed: Physics, Chemistry and Biology which in the recent evaluation of the University emerged among the highest ranked departments of the University, in terms of research output.*

CHAIR **Council on Educational Evaluation and Accreditation (CEEA) of the Republic of Cyprus.**

*Chairing the Council between 1998 and 2006. The Council and its Chairman are appointed by the Council of Ministers of the Republic and it is entrusted with the regulation and Accreditation of all private Tertiary Educational Institutions in Cyprus.*

MEMBER **National Advisory Council for Research, Greece (1997 - 2001) and the National Council for Research and Technology, Greece (2001-2004)**

*These bodies are the Science and Technology advisory Boards to the Greek Government. Chair of the subcommittee on the Coordination of Research and Education.*

PRINCIPLE INVESTIGATOR **Research Project "Assessment of the Feasibility of a Research University in Cyprus" (1999 -2002)**

*Coordination of the activities of the research team comprising of Academics of outstanding international stature. The adoption of the findings and recommendations of the project by the Cyprus Development Bank and the Government of Cyprus led to the establishment of CREF and subsequently of the Cyprus Institute.*

MEMBER **National Research Council of Cyprus (2009 -2014)**

*The Cyprus national council is chaired by the President of the Republic and is responsible for policies and strategic decisions for the development of research and innovation in Cyprus.*

MEMBER **Cyprus Prize Committee on Innovation (2009 - )**

*The committee operating under the auspices of the Ministry of Energy, Industry and Commerce, The Research Promotion Foundation and the Industrialist*

*and Employers Federation selects and awards the most prestigious innovation prizes for Cyprus*

CHAIR                    **Committee for State Prize for Excellence in Literature, Art and Science of Cyprus (2010)**  
*The committee was responsible for examining and awarding distinguished individuals in the fields of art, literature and science.*

CHAIR                    **State Prize Award for the Preservation and Promotion of the Archaeological Heritage of Cyprus (2011-12)**  
*The committee was responsible for Selecting an outstanding individual or an institution that contributed in a seminal way to the Preservation and Promotion of the Archaeological Heritage of Cyprus*

CHAIR                    **Cyprus CERN Committee (2010-2015)**  
*The committee is responsible for the developing ties and ushering the membership of Cyprus to CERN. He was the principal author of the successful application for accession to CERN.*

## TEACHING RESPONSIBILITIES AND EXPERIENCE

*Extensive experience in the planning and implementing physics and science curricula for both undergraduate and Graduate programs. Has taught many Physics Courses, participated in many dissertations committees. Chaired the committee of curriculum development and reshaped the laboratory teaching courses at the Dep. of Physics of Athens University. He led the formation (2010) of the Cyprus Institute's Graduate School, an accredited degree granting institution and he is currently the Dean of the School.*

MAY 90 – AUG. 17    Professor at the University of Athens, Athens, Greece.

AUG 89 – AUG 94    Faculty of Physics at the University of Illinois at Urbana-Champaign USA.

### **Supervision of Doctoral Students (Principal Advisor)**

Ph.D. Degrees Granted

Ammons, Edsel Albert      (currently: Prof. at Univ. of N. Dakota USA)

Mueller, Paul Edward      (currently: Researcher at Oak Ridge, USA)

Mandeville, Joseph B.      (currently: Instructor at Harvard Univ., USA)

Serdarevic Amra              (currently: financial Industry, USA)

Miller, Bruce L.	(currently: in the computer Industry, NY, USA)
Dolfini Steven	(currently: Raytheon Corporation, USA)
Robert Deininger	(currently: Hewlett Packard, Boston MA, USA)
Costas Vellidis	(currently: Assoc. Prof., Univ. of Athens, GR)
Nikos Sparveris	(currently: Assoc. Prof., Temple Univ., USA)
Lefteris Markou	(currently: Researcher, NIPD Genetics, Cyprus)

## EDITORIAL DUTIES

SCIENTIFIC EDITOR "Physics Series", Gutenberg Publishers, Athens, Greece

REFEREEING: Physical Review Letters, Reviews of Modern Physics, Physical Review, Physics Letters, Nuclear Physics, The European Physical Journal, Nature-Energy, Desalination, Radiation Physics and Chemistry

National Science Foundation(US), Department of Energy (US), European Commission, Ministry of Education (EL)

## RECENT INVITED TALKS

C.N. Papanicolas has given numerous invited talks in international conferences and symposia; listed below are scientific invited talks given this during the last twelve months on his scientific work (not as President of the Cyprus Institute).

**EU-ASIA Economic Forum** Xi'an China, 21-22,Sept, 2017:

*"Cyprus: A bridge between the European and Asian Research communities"*

**Eastern Mediterranean Energy: Moving Forward**

(PRIO Foundation - Goethe Institute, Nicosia, Cyprus: Oct, 2 2017 *"Synergies between Natural Gas and Solar Thermal Energy"*

**Electromagnetic Interactions in Nucleons & Nuclei (EINN-2017)**, Paphos,

Cyprus 29/10 - 4/11, 2017: *"The deformation of the proton: A model independent analysis of a nearly complete complete photoproduction experiment"*

**Rotary Presidential Water/ Peace-Building Conference**, Beirut Lebanon, 16-18 Feb, 2018: *"Climate Change, Water Resources & adaptation"*

**SolarPACES-2018** International Conference, Casablanca Morocco 2-5 Oct, 2018: *"Concentrated Solar Power Mitigating Climate Change Impacts in the Eastern Mediterranean and the Middle East"*

**Renewable Energy Sources and Energy Efficiency (RESEE2018)**, 1-2 Nov,

2018: *"Concentrated Solar Power for the Co-generation of Electricity and Desalinated Water: The PROTEAS Experiments"*

**Climate Change, Health of the Planet and Future of Humanity**, Casina Pio IV, Pontifical Academy of Sciences, Vatican City, Nov 15<sup>th</sup>, 2018: *"The vulnerable Eastern Mediterranean-Middle East Region: Challenges and Adaptation Options"*

## PUBLICATIONS & PATENTS

Over 160 publications in peer-reviewed journals and conference proceedings. He and has written many popular articles on matters of science, policy and education.

He holds two patents in the field of Solar Energy and Medical Physics

## COMPETITIVE FUNDING

C.N. Papanicolas has secured during the last eight years in excess of 7.5 Million Euros in competitive funding in fourteen research programs, all of them in the fields of Energy conservation, Solar Energy and Energy policy. He is the Principal Investigator in some of the most prestigious programs awarded e.g. European Research Area Chair (2.5 M€), a Twinning Program (1.0M€)

## HONORARY DISTINCTIONS

- Arnold O. Beckman Award, Univ. of Illinois, 1988
- FELLOW, American Physical Society, 1994
- MEMBER, Academia Europea, 2011
- FOUNDING MEMBER of the Silk Road Academy of Sciences, China, 2017
- PROFESSOR EMERITUS, Senate of the Univ. of Athens, 2018
- FOUNDING and PERMANENT Member of the Cyprus Academy for Sciences, Arts and Letters