

Short CV



Name: **Fidel Castro Díaz-Balart**

Title: Scientific Advisor of the State Council

Research interests:

Nuclear Physics; Energy Technologies and their relation with Environmental Sciences; Nanosciences and Advanced Technologies; Science Policies, Innovation and Knowledge Management.

Biography:

Education: In 1974 graduated as MSc. with (Hon) in Physics, in M. V. Lomonosov State University, of Moscow. From 1972 to 1978, he carried out researches in nuclear physics in the Joint Institute for Nuclear Research (JINR), of Dubna, and earned his PhD in Physical-Mathematical Sciences in the I. V. Kurchatov Atomic Energy Institute, both in Russia. Afterwards, in the above mentioned centre and in the Novovoronzh Nuclear Power Plant he made a Post - Doctoral Research in Theoretical Physics and Nuclear Power Plants (NPP) based on VVER Reactors. In 2000, he obtained a Doctor of Sciences degree (DSc) from the Higher Institute for Nuclear Sciences and Technology, Havana, Cuba; and also holds Master in Sciences (MSc) equivalent degrees in Strategic Planning and Higher Management, and Project Management, from recognized institutions in Russia and Spain. Prof. Castro Díaz-Balart's latest achievements would be the title Doctor Honoris Causae, received from the University Lomonosov in Moscow, 2013 and the same from the University of Voronezh in 2014.

Professional experiences:

Castro Díaz-Balart has held senior positions in Cuba: (1978- 1992) as Executive Secretary of the Atomic Energy Commission, and to the Governmental Body, Executive Secretariat of Nuclear Matters; (1993- 2003) Chief of Scientific and Innovation activities in the Ministry of Industry; and from 2004 to the present, Scientific Advisor of the State Council, Republic of Cuba.

Collaboration:

From (1983-1988), Prof. Castro Díaz- Balart was president of the Meeting of Coordinating Countries for Peaceful Uses of Atomic Energy of the Non-Aligned States Movement; in (1985) of the Permanent Commission for Peaceful Uses of Atomic Energy in COMECON countries and head of the Cuban Delegation to this commission during 1979-1988. He represented Cuba as Governor to the Board of Governors at the International Atomic Energy Agency (IAEA), during the periods between 1983-1992, and Headed the Cuban

Delegation to the IAEA General Assembly in those years. At this time, he also chaired various specialized commissions of international organizations for cooperation in this field.

In 2003 and 2005, participated as member Cuban delegation in the World Summit on Information Society in Geneva, and Tunisia. In the year 2004, he coordinated and led the section of Knowledge and Technology in World Conference "In Defense of Mankind Meeting" in Caracas, Venezuela. In 2005, in Havana, he headed the Organizing Committee of the UNESCO Conference for the International Meeting of Knowledge, Higher Education and Science; and the 1st International Seminar on Scientific Parks, supported jointly by Spanish organization and IASP. Also in 2007, 2008, 2010 and *recently* 2012, has been President Organizing Committee of the First to the 4th International Seminars for Nanosciences and Nanotechnologies, held in Havana.

Awards and honors:

Prof. Castro has been awarded nationally and internationally in Sciences & Education, among them are: in the eighties, in two occasions, by Higher Scientific Council of the Cuban Academy of Sciences for the most relevant scientific result; in 2001, with the First Prize of the XIII National Forum on Science and Technology; in 2001 for the best national Thesis of Doctor in Science Degree (DSc) by the Ministry of High Education; in 1991 and 2005, awarded among the best 10 scientific books jointly conferred by the Cuban Academy of Sciences and the Cuban Institute of Book. Recognitions for Science and Technology achievements, in 2006, received the Carlos J. Finlay the highest National State recognition, the Tomas Romay and Juan Tomas Roig distinction, this last conferred by General Secretary of the National Syndicate Sciences (SNT) in Cuba; in 2007, with Professor Emeritus decoration of the Foreign Studies University of Kyoto, Japan; in 2009, with the Honoris Causae Degree by the Moscow Engineering Physic Institute and I.V. Kurchatov National First Degree Order both in Russia. In 2011, he received the Degree of Doctor Philosophiae Honoris Causae of the National Academy of Science of Ukraine and the First Great Medal of Medical Academy; and in 2012, Honoris Causae Degree on Nuclear Physics by the Higher Institute of Technology and Applied Sciences, Havana, Cuba. He received the title Doctor Honoris Causae from the University Lomonosov in Moscow, 2013 and the same from the University of Voronezh in 2014.

He is frequently lecturing abroad as invited Professor to different universities; and has participated as keynote speaker in prestigious international conferences and worldwide congresses, among others: the Role of Science, in Information Society (RSIS) Conference held in CERN, Geneva in 2003; in 2005, to the World Science Forum, held in Budapest and to the Science Forum: as occasion of the International year of Physics with the conference "Nuclear Science: Physics helping the world" in the frame of the 49 General Conference of IAEA. In 2009 and 2010, 2012, to the Science and Technology in Society Forum- STS of Kyoto.

He has written eleven books and has over 150 scientific publications in journals dealing with nuclear physics and energy, the principles of the quantum theory, the history of science and technology and innovative knowledge management, etc.

Membership:

Dr. Castro Díaz- Balart is member of different organization: Academician Emeritus of The Cuban Academy of Sciences; The Cuban Society of Physics; Economic Society: Friends of Cuba (founded in 1793); The Spanish Society for the History of Science and Technology; The Ibero-Latin American Association of Technological Innovation (ALTEC); Sigma XI, The Scientific Research Society from the USA, among others. In 2012, he was elected as Vice-President of The Cuban Academy of Sciences. Also serves as a Plenipotentiary Representative of his country at JINR, in Dubna.

BOOKS

1. "Elements and reflection on the National Scientific Policy" (1985) edited by Centre for Information on Nuclear Energy. Havana, Cuba.
2. "Nuclear Energy in the National Economy of the Republic of Cuba" (1986) edited by Publishing House of Council for Mutual Economical Assistance (COMECON). Moscow, Russia -in French, English, Russian and Spanish.
3. "Space and Time in Philosophy and Physics" (1988) edited by Social Sciences Publishing House, Havana, Cuba; (1990); 2nd edition Hermanos Vadell and University of Zulia, Venezuela.
4. "Nuclear Energy and Development" (1990) edited (1991) by Social Sciences Publishing House, Havana, Cuba; and 2nd edition by Collhue Publishing House, Argentina.
5. "Science, Innovation and the Future" (2001) 1st edition by The Cuban Book Institute, Havana, Cuba; (2002) 2nd edition by Random House Mondadori S. E. Publishing House, Barcelona, Spain.
6. "Cuba: Sun Rice of the Third Millennium" (2002) 1st edition of Debate Publishing House Random House Mondadori, Barcelona, Spain & 2nd edition by Social Sciences Publishing House, Havana, Cuba.
7. "*Information Societies: Toward a South Perspective*", Editorial South Centers, Geneva, Switzerland. (Editor and author of an International Scientific Panel). December 2003.
8. "Science, Technology and Society: in Globalization Era" (2003/2004) 1st and 2nd edition by Scientifically-Technical Publishing House, Havana, Cuba.

9. Science, Technology and Innovation: Challenges and uncertainties for the South, Ed. Square, Havana, Cuba, 2006, (Editor and author of an International Scientific Panel).
10. "Nuclear Energy. Environmental danger or solution for the 21st century?" (1997) 1st Spanish edition by Mec Graphic S. A. Publishing House, Torino, Italy; (1999) 2nd Spanish edition by Grijalbo - Mondadori, Barcelona, Spain; (2001); 3rd and 4th (2002) edition in French and in Italian correspondingly by Editions Naturellement, Lyon, France and Maretti & Wilde, Bologna, Italy; edited in Russian language (2008) by Nauka Publishing House, and finally, in English, by Lago SA, Mexico 2011.
11. "One step ahead the world" in Japanese jointly written with Dr. H. Tomabechi and edited by Tokuma Shoten, July 2011.

SOME ESSAYS

- "70 Years of the General Theory of Relativity" (1986) Reporte (CEAC-r ININ-1; (1985) edited by Centro de Información de la Energía Nuclear, Ciudad de la Habana, Cuba.
- Kern - Energie. Unentbehrliches Kettenglied Gives Fortschritts, Book "Adelante Cuba", Ed. AUFSatz Kernkraft 1986.
- "Nuclear Physics and Nuclear Data Evaluation in Cuba", presented in the International Conference "50 Years of Nuclear Physics", Leningrad, USSR; and Revista NUCLEUS, No. 7, in Spanish language (1989).
- "Nanotechnology / Development: Opportunities and uncertainties", Anales Magazine, Ed. Academia, Havana, Cuba. (May, 2011)

Place and Date of Birth: Havana, September 1st, 1949

Mother Language: Spanish. *Other Languages:* Fluent English, and Russian. Understands French

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