

Pugwash Conferences on Science and World Affairs

Unione degli Scienziati Per Il Disarmo – ONLUS

in collaboration with

Amministrazione Comunale – Rosignano Marittimo (LI)
Centro Interdisciplinare Scienze per La Pace – Univ. di Pisa
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17TH CASTIGLIONCELLO INTERNATIONAL CONFERENCE *International Security in the Trump Era* *Pugwash-USPID Joint meeting*

September 21-23, 2017 – Villa Celestina – Castiglioncello (Livorno)

Organizing Committee: Giuliano Colombetti, Diego Latella, Francesco Lenci, Claudia Vaughn

SHORT BIOGRAPHIES

Hussain Al-Shahristani served as Deputy Prime Minister for Energy (2010-14), Minister of Oil (2006-10) and Minister of Higher Education (2015-16) in the Iraqi government. He holds a Ph D degree in nuclear chemistry and was Chief Scientific Advisor to the Iraqi Atomic Energy Commission in 1979 and refusing to work on military nuclear programme, he was imprisoned for 11 years

Massimo Artini is an entrepreneur in Information Tecnology since 1995. Elected in 2013, he is the Vice-President of the Defence Committee at the Chamber of Deputies. He works mainly to propose new laws and to reform the regulations of Defence and Foreign Affairs (concerning, for example, International Missions Law – 2016, Cyber Governance – 2017, Armaments Trade and Export Control – 2017). He is spokesman of Alternativa Libera (a new political force created by ten parliamentarians ex-Movimento 5 Stelle) and he works to propose a new approach to Defence, Foreign Affairs, Migration, Counter-terrorism policies.

Sergey Batsanov, retired Soviet/Russian diplomat and negotiator on arms control and disarmament, is member of the Council of the Pugwash Conferences on Science and World Affairs and Director of the International Pugwash Geneva Office; he was Director of the Organisation for the Prohibition of Chemical Weapons (OPCW) from 1993 to 2004 and representative of the Soviet Union / Russian Federation to the Conference on Disarmament in Geneva from 1989 to 1993. He is member of the European Leadership Network.

Des Browne, more formally known as Lord Browne of Ladyton, is a lawyer and a British Labour Party politician. From 1997 until 2010, after a legal career of about twenty years as a Scottish solicitor and then an advocate, he was elected and twice re-elected as the Member of Parliament (M.P.) for the Scottish constituency of Kilmarnock & Loudon. During his time as a backbench M.P., he served on the Northern Ireland Select Committee, the Public Administration Select Committee and the Joint Human Rights Select Committee and was Parliamentary Private Secretary to the late Donald Dewar M.P., the father of Scotland's devolution and the First, First Minister of Scotland. Between May 2001 and October 2008, consecutively he held ministerial posts in the Northern Ireland office, the Department of Work and Pensions, the Home office, the Treasury, the Ministry of Defence and the Scotland Office. Among other ministerial offices, he served in Cabinet positions as the United Kingdom's Chief Secretary to the Treasury from 2005 to 2006, Secretary of State for Defence from 2006 to 2008 and, at the same time, as Secretary of State for Scotland from 2007 to 2008. A member of the House of Lords since 2010, he is also Vice Chairman of the Washington, D.C. based Nuclear Threat Initiative, an NGO that works globally to reduce the threats posed by nuclear and other weapons of mass destruction and disruption. Lord Browne also is a co-founder and the Chair of the Executive Board of the European Leadership Network and is a trustee and board member of other charitable organisations.

Francesco Calogero is Professor Emeritus of Theoretical Physics at *Università La Sapienza* in Rome. From 1989 to 1997 he was Secretary General of the Pugwash Conferences on Science and World Affairs, and in that capacity he accepted the Nobel Peace Prize awarded jointly to Joseph Rotblat and to Pugwash "for their actions to reduce the role of nuclear weapons in international politics, and in the long run to eliminate such weapons." (Oslo, Dec. 10, 1995). From 1997 to 2002 he chaired the Pugwash Council, of which he is still a member, *ex officio*. He is a member of the Scientific Council of USPID.

Giuliano Colombetti is a Physicist, retired Research Director at CNR (National Research Council) now CNR Research Associate; former Secretary of Pisa Section of *Unione degli Scienziati Per Il Disarmo* (USPID, Union of Scientists for Disarmament); Member of the Scientific Council of USPID.

Paolo Cotta Ramusino is Secretary General of Pugwash Conferences on Science and World Affairs and Member of the Pugwash Executive Committee. He is Professor of Mathematical Physics at the University of Milan. He was Director of the Landau Network's International Disarmament and Security Program - *Centro Volta*; He was the National Secretary of USPID, and is member of the Scientific Council of USPID.

Nicola Cufaro Petroni is a theoretical physicist and a professor of Probability and Statistics at the Department of Mathematics of the University "Aldo Moro" in Bari. He is also a member of the Interdepartmental Centre for Peace Research (CIRP) of the same University. He was National secretary of USPID from 2002 to 2011, and he is now a member of its Scientific Council.

Marco De Andreis is director of statistical analysis at Italy's Customs Agency. A former European Commission official, he is a member of the Scientific Council of USPID.

Benedetto Della Vedova is Undersecretary of State at the Italian Ministry of Foreign Affairs and International Cooperation since February 2014, first in the Government of Prime Minister Matteo Renzi and, since December 29th, 2016 in the Government led by Prime Minister Paolo Gentiloni. His portfolio includes relations with Asia-Pacific countries, Canada and Mexico, supporting the internationalization of Italian companies, and economic and financial matters related to the G8 and the G20. He is a member of the Italian Senate, elected in 2013 with the party founded by former Prime Minister Mario Monti, Scelta Civica. He has a longstanding career as MP both in the Italian Chamber of Deputies, from 2006 to 2013, and in the European Parliament from 1999 to 2004. As a commentator on political and economic affairs, Benedetto has been a contributor to Italy's major economic national newspaper *Il Sole 24 Ore* and to the *Corriere della Sera*. A member of the Transnational Radical Party since 1992, he is a staunch advocate of human rights and fundamental freedoms, of the abolition of the capital punishment, of free market and the European Union.

Sergio Duarte is a retired Brazilian diplomat (1956-2004). He served at the Embassies in Rome, Buenos Aires, Washington and the Permanent Mission of Brazil in Geneva and as Ambassador to Nicaragua, Canada, China and Austria as well as to the United Nations organisations in Vienna. He was Advisor of the Brazilian Delegation to the Eighteen-Nation Disarmament Committee (1966-68) and attended several Sessions of the I Committee of the UN General Assembly between 1968 1986. Alternate Representative to the Conference on Disarmament (1979-86). Duarte presided over the Review Conference of the Sea-Bed Treaty (1987), the 2005 Review Conference of the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) and the Board of Governors of the IAEA (1999-2000). He is a member of the Pugwash Council, of the Latin American and Caribbean Leadership Network and of the CTBTO GEM Group. Sergio Duarte is President of the Pugwash Conferences on Science and World Affairs.

Mirco Elena is a physicist and researcher. Journalist with multidisciplinary interests. Professionally had worked with ion beams and thin films to modify technological characteristics of materials. At present works on technical aspects of peace, and in particular on issues related to energy. Has written more than fifty technical articles on materials science. Has edited books on the transfer of technology and of weapons. Author of two books on the Chernobyl disaster. Author of one book on the similarities and differences of China and Italy. Has a forty-years-long experience in the popularisation of science, lecturing at public meetings and in schools. Author of hundreds of articles on newspapers, magazines and journals. Conductor of series of radio programs. Participation as expert in TV programs. Vice-secretary general of Uspid (Union of Italian Scientists for Disarmament). Responsible for the Trento section of Uspid. In charge of the Trento office of Isodarco (International School on Disarmament and Research on Conflicts)

Roberto Fieschi is emeritus professor of physics at the University of Parma. Research mainly on solid state physics. Active also on the popularisation of science and the production of didactic multimedia. He is member of the Scientific Council of *Unione degli Scienziati Per Il Disarmo* (USPID, Union of Scientists for Disarmament)

Massimo Inguscio is President of the Italian National Research Council (CNR), of which he had previously directed the Department of Physical Sciences, and member of the National Academy of Lincei. He has been president of the National Institute of Metrological Research (INRIM). He has been given the title of Grand Officer of the Order of Merit of the Italian Republic, awarded the Legion d'Honneur by the French Government, received the prize Enrico Fermi of Italian Physical Society, the Herbert Walther Award of the Optical Society of America and the German Physical Society and has been included in the Thomson-Reuters list of "most influential scientific minds" for his activities in atomic physics research close to absolute zero at LENS - European Laboratory for Non-linear Spectroscopy, University of Florence, of which he was director.

Hans M. Kristensen is director of the Nuclear Information Project at the Federation of American Scientists where he provides the public with analysis and background information about the status of nuclear forces and the role of nuclear weapons. He specializes in using the Freedom of Information Act (FOIA) in his research and is a frequent consultant to and is widely referenced in the news media on the role and status of nuclear weapons. Kristensen is co-author of the Nuclear Notebook column in the Bulletin of the Atomic Scientists and the World Nuclear Forces overview in the SIPRI Yearbook. Between 2002 and 2005, Kristensen was a consultant to the nuclear program at the Natural Resources Defense Council in Washington, D.C, where he researched nuclear weapons issues and wrote the report "U.S. Nuclear Weapons In Europe" (February 2005) and co-authored numerous articles including "What's Behind Bush's Nuclear Cuts" (Arms Control Today, October 2004) and "The Protection Paradox" (Bulletin of the Atomic Scientists, March/April 2004). Between 1998 and 2002, Kristensen directed the Nuclear Strategy Project at the Nautilus Institute in Berkeley, CA, and he was a Special Advisor to the Danish Ministry of Defense in 1997-1998 as a member of the Danish Defense Commission. He was a Senior Researcher with the Nuclear Information Unit of Greenpeace International in Washington D.C from 1991 to 1996, prior to which he coordinated the Greenpeace Nuclear Free Seas Campaign in Denmark, Norway, Finland and Sweden.

Diego Latella is a computer scientist. He is senior researcher of the National Research Council of Italy, at *Istituto di Scienza e Tecnologie dell'Informazione "A. Faedo"* (Institute of Information Science and Technology); his main field of research is that of formal methods for the design and analysis of systems involving digital technology. He has been member of Computer Professionals for Social Responsibility. He is National Secretary of *Unione degli Scienziati Per Il Disarmo* ONLUS (USPID, Union of Scientists for Disarmament) since 2010. He is a member of the Board of Directors of International School On Disarmament and Research on Conflicts (ISODARCO) founded in 1966 by Edoardo Amaldi and Carlo Schaerf. He has collaborated in organizing ISODARCO courses on cyberwar and netwar.

Francesco Lenci is a Physicist, retired Research Director at CNR (National Research Council) now CNR Research Associate; former Director of CNR Biophysics Institute (from 1990 to 2002) and former Member of CNR General Scientific Council (from 2006 to 2011). Senior Fellow of the *Centro Interdisciplinare Scienze per la Pace* (CISP - Interdisciplinary Centre for Peace Studies), Pisa University; Member of the Scientific Council of *Unione degli Scienziati Per*

Il Disarmo (USPID, Union of Scientists for Disarmament), USPID National Secretary from 1983 to 1990; Member of the "Initiative Committee" preparing the Moscow Forum of 1987; Member of Pugwash Council.

Antonio Palazzi is a chemist, retired professor at the University of Bologna, Faculty of Industrial Chemistry; his main field of research is the synthesis of organometallic complexes and of light emitting compounds. Author of the chapter on "Chemical armaments" in the book "The ABC of mass destruction armaments" edited in the year 2012. Responsible for the Bologna section of *Unione degli Scienziati Per Il Disarmo* ONLUS (USPID, Union of Scientists for Disarmament), he is now member of its Scientific Council.

Alessandro Pascolini is a theoretical physicist, senior scholar at the University of Padua, where he thought courses of theoretical physics and of arms and disarmament. He is vice-director and teacher of University's Master in Science Communication and was member of the Board of directors of University's *Centro d'ateneo dei diritti umani*. His researches regard nuclear physics, technologies related to armaments and disarmament, and science communication. For the last 30 years he has been active in projects aiming to raising public awareness of science in Europe; for these activities he has been awarded the Outreach Prize 2004 of the European Physical Society. He takes part in the activities of the Pugwash Conferences on Science and World Affairs and is vice-president of the ISODARCO international school on disarmament and research on conflicts. He has served as secretary of the Italian Pugwash group from 1973 to 1990.

Alessio Pecorario is a Doctor of Philosophy (PhD) in constitutional comparative law. Currently, he is an *Official of the Dicastery for Promoting Integral Human Development* of the Holy See-Vatican City State. Previously, he was a legal adviser of: the *Financial Intelligence Authority* (Holy See-Vatican City State); the *European Centre for Law and Justice* (Strasbourg) and the *European Commission for Democracy through Law of the Council of Europe* (Strasbourg). He was also an intern at the *Permanent Representation of Italy to the Organisation for Security and Co-operation in Europe* (Wien). His main publications are: *Memorandum On The Hungarian New Constitution* Of 25 April 2011, European Centre for Law and Justice, 2011; *Fuoco sopra e sotto il Medio Oriente*, *Diritti Comparati*, 2011; *I vent'anni della Commissione di Venezia del Consiglio d'Europa: storia di uno dei più formidabili successi della diplomazia italiana nelle relazioni giuridiche internazionali*, *Rivista di studi politici*, Istituto "S. Pio V", Roma, 2010; *The Ukrainian Elections: a lesson for Europe?* *Federalismi*, 2010; *Terminer la révolution: la réception de la doctrine de la séparation des pouvoirs en France*, Giappichelli, Torino 2009; *Thailand's Dangerous Coup and Asian Juristocracy: involution or evolution?*, Giuffrè, 2008.

Enza Pellecchia is Full Professor of Private Law at the Department of Law at the University of Pisa. She is director of the *Centro Interdisciplinare Scienze per la Pace* (CISP - Interdisciplinary Centre for Peace Studies), at the University of Pisa and member of the scientific committee of the campaign "Senzatomica. Transforming Human Spirit for a nuclear free world" promoted by the Italian Buddhist Institute Soka Gakkai.

Wolfgang Plastino is Associate Professor of Applied Physics at the Department of Mathematics and Physics-Roma Tre University. He is Scientific Coordinator in the framework of the virtual Data Exploitation Centre (vDEC) of the Comprehensive Nuclear-Test-Ban Treaty Organisation (CTBTO) for testing and evaluation of algorithms and datasets in support of the verification mission on radionuclide event screening categorisation for the International Monitoring System (IMS) and International Noble Gas Experiment (INGE). He is Scientific Secretary of the Edoardo Amaldi Conferences and Edoardo Amaldi Lectures organized by the International Security and Arms Control Working Group-Accademia Nazionale dei Lincei.

Mario Rocca is Full Professor of Condensed Matter Physics at Università degli Studi di Genova and associated member of the IMEM CNR Institute. His main field of research is Surface Science and specifically gas surface interaction, catalytic reactions and surface plasmons. He is Editor of Applied Surface Science and of Surface Science Reports as well as Serier Editor of Springer Tracts in Surface Science. He has published more than 180 papers in peer reviewed journals. He is a member of the Scientific Council of USPID.

Henrik Rudolph (Frederiksberg, Denmark 1958) received a Ba in Chemistry and a MSc in Physics from the University of Copenhagen and subsequently obtained a PhD from California Institute of Technology (USA). In 1990 he joined Utrecht University (the Netherlands) as an associate professor of physics and in 2001 he became full professor in atomic and molecular physics. Since 2012 he is employed by the Ministry of Defense (NL). He is also editor-in-Chief of the scientific journal Applied Surface Science (Elsevier). This is the largest regular journal in the field of surface science (impact factor 3.387 for 2016). He is a strong advocate for the participation of scientist in the public debate. Especially in this day and age, where scientific findings and scientist in general are not just being ignored but often ridiculed. Scientists must be willing to engage in a dialogue with the policy makers and the general public, while explaining their findings in layman's terms. If this dialogue goes beyond the boundaries of their formal training, they should not be afraid to partake in the dialogue. However, one has to clearly state the difference between scientific results, interpretations of these and personal opinions.

Daniele Santi is General Secretary of "Senzatomica" a campaign addressed to all people with the aim of raising public awareness about the nuclear threat, rejecting the idea of security based upon nuclear weapons and claiming the right of a world free from nuclear weapons. Form 2011 the exhibitions have been held in 69 cities around Italy with 320.000 visitors of 120.000 students. Hundreds of side events have been organised as well.

Carlo Schaerf is professor of Physics at the University of Rome "Tor Vergata" (ret.). He has done experimental work in the field of Hadron Physics mostly with polarized gamma-ray beams and sometimes polarized targets. He is the founder and President of International School on Disarmament and Research on Conflicts (ISODARCO). He is the author of many scientific papers on Photo-Hadronic Interactions and editor of several books on Photo-nuclear Reactions and International Security.

Ambassador **Carlo Trezza** concluded in 2015 his mandate as Chairman of the Missile Technology Control Regime (MTCR). In 2010 the UN Secretary General appointed him as

Chairman of his Advisory Board for Disarmament Matters. He served as Diplomatic Advisor to the Italian Minister of Defence and Co-Director of the Institute for High Defense Studies. In 2003 he chaired the Conference on Disarmament in Geneva. Prior to becoming Italy's Permanent Representative for Disarmament in Geneva, he served as Ambassador of Italy to the Republic of Korea. He was a Coordinator for Security and Disarmament and Head of the Office of the Secretary General at the Ministry of Foreign Affairs. As a career diplomat he served in Zambia, Israel, Germany, Spain and in Washington DC. He is currently Senior Adviser for Disarmament and Non Proliferation of the Italian Institute of International Affairs (IAI) in Rome

Francesco Vignarca for over fifteen years has operated in the field of peace and disarmament, and since 2004 is National coordinator for Rete Italiana per il Disarmo. In this context he has been dealing with the issues of military expenses, private defence companies, armaments trade control, industrial reconversion, to name but a few, and he has research and coordinations duties in all the mobilizations and campaigns started by Italian peace movement on the topics above. Inside this framework he has great experience advocating the Italian Government and Parliament (dealing with all national political groups) as well as with EU institutions; he works closely with all the international networks for peace and disarmament linked with Rete Italiana per il Disarmo. During the last ten years he promoted and coordinated the Italian branch of international campaigns such as Control Arms, Stop Killer Robots, International Campaign Against Nuclear Weapons, Global Campaign on Military Spending, the European Forum on Armed Drones and since 2014 in the national coordination group for the campaign "Un'altra difesa è possibile" aiming at the creation and institutional recognition of a nonviolent and non armed Civilian Defence. Last July, as representative of the international civil society, he was present at the second session of negotiations for the "Nuclear Ban Treaty" at the United Nations Headquarters in New York. Vignarca owns a University Degree in Astro-Physics and a Master Degree in the Sociological field related to human and social development. Is author of many books regarding arms trade and production, military spending, peace and nonviolence issues and the privatization of war.

