

# LIST of EPS Fellows

*Upon nomination by their peers, EPS Individual members can be elected as Fellows of the EPS.  
You will find the list of current fellows and their long citations below.*

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| Halina Abramowicz       | For her contribution to experimental particle physics, in particular through the CDHSW experiment, contributing to the most precise measurement at that time of $\sin^2\theta_W$ , through the ZEUS experiment at HERA in the low Bjorken-x physics, where she was a co-discoverer of the large rapidity gap events and for her contribution to the high energy QCD at the LHC.”   |
| Ugo Amaldi, Italy       | For his many important contributions to the field of high energy particle physics, in particular for his decisive role in the approval and construction of the DELPHI experiment at CERN, as well as for his recent contributions to the field of medical physics.   |
| Patrizio Antici         | For his crucial contributions to the implementation of large-scale infrastructures and networks in laser and accelerator science within the European Research Area, and his significant research in the development of laser-driven beamlines.   |
| Dimitri Batani          | For his numerous and important contributions in Laser Plasma Physics related to Inertial Fusion and for his distinguished services at the Plasma Physics Division of the EPS.  |
| Uwe Becker, Germany     | For his seminal contributions to the understanding of photoionization of atoms, molecules and clusters. By studying such processes in inversion symmetric systems such as diatomic homonuclear molecules and fullerenes he has established the coherent properties of the electrons emitted from these quantum objects in an analogous way to double slit experiments. This in turn has opened up a new field in photoionization, namely, the study of quantum optical properties in photo- and Auger electron emission. |
| Carlo Bemporad, Italy   | For many important contributions to experimental particle physics in Europe, in particular for his outstanding contributions to the study of neutrino oscillations.  |
| Giorgio Benedek, Italy  | For his distinguished role in the Italian and international physics community in the domain of Solid State Physics, his important and constant role in the EPS as member of many scientific boards, as a member of the EPS Executive Committee and as member of the EPN and EPL advisory and editorial boards.   |
| Alessandro Bettini      | For his remarkable experimental contributions to subnuclear physics and for his outstanding leadership in the development of subnuclear physics, and more generally in the promotion of physics, including the IYL 2015 initiative.  |
| Caterina Biscari, Italy | For her significant contributions to the design, construction and operation of   |



particle accelerators, for her distinguished role in the international physics community and for her promotion of European Physical Society initiatives.

Gunnar Björk, Sweden

For his numerous contributions to quantum optics and quantum electronics and for his distinguished services to the European Physical Society, particularly the Quantum Electronics and Optics Division.

Dominique Bolmont, France

For his outstanding surface physics works and initiating the offer by the Université de Haute Alsace (UHA) for hosting the EPS Secretariat on the UHA Campus. He also introduced, and supports with enthusiasm, much wisdom and knowledge, the joint EPS/UHA Conférences Exceptionnelles, which are intended to stimulate the interest of young people from the region around the EPS secretariat in science, and particularly in physics.

Alain Bourdier, France

For his pioneer analytical work on electron dynamics in a relativistic regime, in relation to the very important field of high- intensity and subpicosecond laser absorption in over dense plasmas, culminating in his now classical method of reducing oblique incidence of a strong electromagnetic wave to a 1D problem. More recently, he has made important contributions to non-linear dynamics of free electron lasers and the investigation of integrability requirements of some significant experiments in this field.

Alexander Bradshaw, Germany

For his outstanding research in surface science, molecular spectroscopy and instrumentation development as well as for his engagement to the community, where as holder of many honorary offices he has promoted programmes for the public understanding of physics, advanced open access publishing, prompted the discussion of future energy supplies and advised national and international science programmes.

Harald P. Brune

For his contributions to the atomic scale understanding of the magnetic and chemical properties of surface adsorbed single atoms and nanostructures.

Roger Cashmore, United Kingdom

For his contributions to experimental particle physics, in particular through the TASSO and ZEUS experiments at DESY and the LHC programme at CERN.

Majed Chergui

For his pioneering of novel ultrafast X-ray and ultraviolet spectroscopic tools for the study of molecular and biomolecular dynamics in solutions and for his engagement in promoting science in the developing world and in Europe.

Giovanni Ciccotti

For his transformative contributions to the methodology Molecular Dynamics simulations and for his tireless commitment to the creation and nurturing of a truly outstanding European simulation community.

Eugenio Coccia, Italy

For his contributions to the search of gravitational waves, for his engagement in the European astroparticle physics community and for his service to the society at large through the establishment of a new PhD school and Institute of advanced studies in the city of L'Aquila, Italy, contributing to relaunch the economy of the region hit by the 2009 earthquake.

Claude Cohen-Tanoudji, France

For groundbreaking, broad ranging scientific contributions to atomic physics and quantum optics and for the dissemination of scientific knowledge through books and lectures.



Luis Miguel de Oliveira e Silva	For his outstanding theoretical and numerical contributions in laser plasma interaction in the relativistic regime.
Sandro de Silvestri, Italy	For his outstanding contributions to the field of ultrafast optical phenomena from the development of few optical cycle pulses to the generation of attosecond pulses in addition to his service to the international optics community and the Quantum Electronics and Optics Division of the European Physical Society.
Gerardo Delgado Barrio, Spain	For his achievements in Atomic, Molecular and Cluster Physics and for his contribution in the development of Physics in Spain, Europe and Latinoamerica.
Jozef T. Devreese, Belgium	For most outstanding contributions, sustained over a long time and with remarkable vision, to the modern Condensed Matter Theory and for his inspiring and innovative service to the European Physics community.
Martial Ducloy, France	For his excellent contributions to non-linear physics and laser spectroscopy and his outstanding contributions to the public understanding of physics through initiating and promoting the World Year of Physics 2005.
John Enderby, United Kingdom	For services to European Science and particularly to European Physics Publications.
Wolfgang Ernst	For his world-recognized scientific contributions in high-resolution molecular spectroscopy, his advances in the optical spectroscopy of atomic and molecular species in quantum droplets, and for his outstanding service in the scientific physics community.
Berndt Feuerbacher, Germany	For his outstanding research in surface science and materials physics on Earth and in space, for his extraordinary success in space missions, in particular the ESA cornerstone mission Rosetta, as well as for his engagement to the community and leadership in scientific committees and his role within the European Physical Society.
Zoltan Fodor, Hungary	For his outstanding contributions to theoretical elementary particle physics, achieved by simulating Lattice Quantum Chromo Dynamics with sophisticated methods and algorithms on leadership-class supercomputers.
Paul French, United Kingdom	For pioneering achievements in femtosecond source development and applications in biophotonics, and for contributions to the European Physical Society.
Peter Fulde, Germany	For his achievements in science and service to the community.
Gillian Gehring, United Kingdom	For services to European Science and to the European Physical Society.
Franco A. Gianturco, Italy	For his ground-breaking, broad-ranging contributions to Atomic, Molecular and Electron Physics, in particular for his theoretical contributions to electron and positron collisions with molecules.
Marcello Giorgi, Italy	For his leading role in experimental high-energy particle physics, in particular to the study of CP symmetry violation, and for his contribution to



the European Physical Society and its outreach programme.

- Adelbert Goede, Netherlands  
For essential contributions to the understanding of the composition of the Earth/Atmosphere System and its changes, and the further development of the European Physical Society in particular the Environmental Physics Division.
- Jozsef Gyulai, Hungary  
For his enthusiastic and very influential services in establishing closer contacts between physicists and his outreach activities who helped keeping high the interest of the hungarian public in physical research.
- Denis Hall, United Kingdom  
For his outstanding contributions to laser physics, academic leadership and services to the Quantum Electronics Division of the European Physical Society.
- Jean-Pierre Hansen, United Kingdom  
For being the driving force behind the initiation of the extremely successful Liquid Matter conferences of the EPS.
- Albert Hofmann  
For his numerous important contributions to the understanding of beam dynamics in high energy particle accelerators, including pioneering experimental and theoretical studies of beam instabilities, and for his work as an outstanding communicator and teacher.
- Hartmut Hotop, Germany  
For his pioneering contributions to high-resolution studies of low energy electron collisions and for his dedicated service to the EPS in many functions, among others as EGAS and AMOPD Jan Zylicz, Poland For his work as a co-founder of Polish nuclear spectroscopy research teams, for his long time successful scientific research, his contribution to Polish nuclear physicists international collaborations, and his inspiring teaching activities.
- Günter Huber, Germany  
For his pioneering research of the growth, characterization and use of new solid-state laser-active materials, in particular transition-metal and rare-earth ion doped crystals.
- Kurt Hubner, Switzerland  
For his excellent leadership in the field of accelerator physics and technology, his moral and intellectual integrity, his scientific merits, and his constant engagement in favour of European Physics.
- Jean-François Joanny  
For his groundbreaking work on the physics of Soft Matter, in particular the physics of Biological Systems.
- Ronald Johnson, United Kingdom  
For his outstanding contributions to nuclear reaction theory and distinguished services to the European Physical Society, particularly the Nuclear Physics Division.
- Eberhard Keil, Germany  
For his seminal contributions to numerous topics in accelerator physics and contributions to the design and performance of major accelerators.
- Ursula Keller, Switzerland  
For her pioneering contributions in the field of ultrafast science, and for key developments in femtosecond lasers that have revolutionized the study of ultrafast phenomena in physics, chemistry and biology in particular for her invention of the semiconductor saturable absorber mirror, which transformed femtosecond lasers from complex devices that can only be used



	by specialists to reliable and robust instruments suitable for use in any general purpose scientific laboratory.
Thomas Kibble, United Kingdom	For his contributions to the discovery of the 'Brout-Englert-Higgs' mechanism and Higgs boson.
Peter Knight, United Kingdom	For his outstanding contributions to quantum optics and his academic leadership and service in optical physics.
Dalibor Krupa, Slovakia	For his achievements in physics research, his creating the Slovak Physical Society, his outreach activities and his personal contribution to the EPS
	Dénes Nagy, Hungary For his lifelong service to the community of Hungarian physicists, contributions to the European integration in fundamental and applied research and his remarkable scientific achievements in nuclear solid state physics.
Peter Lambropoulos, Greece	For his ground-breaking, broad-ranging contributions to Atomic Physics, Nonlinear optics, and Quantum Optics, in particular for his theoretical contributions to multiphoton interactions with atoms.
Luigi Lugiato, Italy	For pioneering theoretical contributions to the fields of Quantum and Non-linear Optics.
Frédéric Merkt	For his innovative, wide-ranging and leading contributions to Atomic and Molecular Physics.
Jürgen Meyer Ter Vehn, Germany	For his outstanding contributions to plasma physics in fields of inertial confinement and laser-matter interaction and for his contributions to the European Physical Society.
George Morrison, United Kingdom	For his contributions to the work of the EPS Council and his significant contributions to EPS publications and communication policy.
Steve Myers, United Kingdom	For his combining both outstanding scientific achievements and a dedicated service to the European Scientific Community.
François Peeters	For his outstanding contributions to the theory of Condensed Matter, including the prediction of several new phenomena and structures that were subsequently discovered experimentally. For his scientific vision and inspirational leadership in Condensed Matter and Materials Physics at the European an international level.
Robert Pick, France	For the development and direction of EPS policies on conferences and on support for young physicists.
Stefaan Poedts, Belgium	For his important and numerous contributions to astronomy & astrophysics, fundamental fluid and plasma physics, multi-disciplinary and mathematical physics, planetary sciences, nuclear physics, computer science and applied mathematics, including his work in space weather and the quantification of solar wind effects on CME initiation and early evolution, and the first working model for the Jovian magnetosphere.
Markus Pollnau, Netherlands	For his outstanding scientific contributions and services to the optical



community.

Michael Poole, United Kingdom

For key early contributions to novel synchrotron operation leading to new photo-nuclear investigations, lasting contributions to the realisation of second, third and fourth generation light sources, pioneering work on the development of Free Electron Laser facilities internationally, and life-long services to the field of accelerator science and technology.

Renato Ricci, Italy

For his contributions to nuclear spectroscopy and to increasing the European collaboration in Physics.

Günther Rosner, Germany

For his important contributions in science policy in the field of nuclear physics including chairmanship of the Nuclear Physics European Collaboration Committee (NuPECC) of the ESF, and the Scientific and Technical committee of Facility for Antiproton and Ion Research (FAIR), as well as his proven commitment to the European physics community.

Christophe Rossel, Switzerland

In recognition of his work as a research physicist of high standing who has made strong contributions in the fields of superconductivity and applied semiconductor physics at the research laboratory of one of the leading international high-technology companies. He has effectively supported and promoted EPS in numerous functions, most recently by leading the fourth Forum Physics and Society on «Science Journalism and Scientific Communication» at El Escorial in 2010. In his position as president of the Swiss Physical Society he has also helped tightening the links between EPS and its member society.

Zenonas Rudzikas, Lithuania

"Physics gives us not only the knowledge about the structure and the properties of the universe, but also the way of thinking. That is why it must be studied not only by those interested in physics and its applications, but also by people realizing their capabilities in the other domains of human activities. Laws of nature are more universal than it was thought before."

Olaf Scholten, Netherlands

For his contributions towards the theoretical studies of nuclear and high energy physics as well as distinguished services to the European Physical Society.

Ryszard Sosnowski, Poland

For the profound contributions to the experimental elementary particle physics and to the organization of Polish and European physics and outstanding service to the scientific community.

Michel Spiro

For his outstanding contributions in the fields of High Energy Physics and Neutrino Physics.

Angiolino Stella

For his outstanding research contributions in basic aspects of condensed matter physics, as well as applications, in particular in semiconductors, optical spectroscopy of solids, composite materials and nano-structures, for his remarkable contributions to the University and Science

Horst Stoecker

In recognition of his ground breaking research achievements, being among the first to suggest the development of shock waves and flow phenomena in relativistic heavy ion collisions<sup>1</sup> and participating in the work of developing the most detailed and accurate theoretical models (RQMD2 and uRQMD3)



to describe collective dynamics of the nuclear matter at extreme densities and temperatures.

He summarized the research achievements in this field early to the benefit of all his students and colleagues. The impact of his research achievements is among the highest in physics. He contributed to the education of countless talented students and associates and served the research community effectively for a long period in different leading positions. During the same time he also assisted the European Academic and Social organizations with valuable work and insight as well as support by all means it was needed.

Annick Suzor-Weiner, France

For her achievements in atomic and molecular physics and for her contributions to the European Physical Society, in particular the North-South cooperation.

Sergio Tazzari, Italy

For his outstanding contributions to the development of Accelerator physics in Europe.

Anne Patricia Thorne, United Kingdom

For her important contributions to atomic and molecular spectroscopy and to the EPS through dedicated service in the European Group for Atomic Spectroscopy.

Lluís Torner, Spain

For his pioneering contributions to nonlinear optics and quantum electronics and for his services to European optical physics.

Victor R. Velasco

For his achievements in the study of electronic and vibrational properties in surface and interface systems. For his work in the Royal Spanish Physical Society, as a member of the Board and Treasurer, and the European Physical Society as a member of the Board and Secretary of the EPS Executive Committee and his contribution to the links among both Societies and those of Latin America.

Wolfram von Oertzen, Germany

For his outstanding contributions to the understanding of nuclear structure and nuclear reaction mechanisms, in particular through the concept of molecular orbitals of valence nucleons mediating the covalent binding of clusters within a nucleus.

Albrecht Wagner

For his lifetime contributions to the development of Particle Physics in Europe and worldwide.

Friedrich Wagner, Germany

In recognition of his outstanding research in the fields of high temperature physics, fusion research and experimental plasma physics plus his prominent merits for the European Physical Society. The field of plasma physics received countless essential impulses by Friedrich Wagner's scientific research. Friedrich Wagner combines the talents of excellent scientific work in a wide range of fields with the ability to shape and direct the European physics community.

Roger Weynants, Belgium

For services to European Science and to the European Physical Society and for outstanding contributions to plasma physics and thermonuclear fusion.

Victor Zadkov, Russia

For seminal contributions to quantum optics and molecular spectroscopy, for his tireless work on behalf of the international physics community and ongoing commitment in bridging Russian and European physics, and for



services to the European Physical Society.

Victor Zamfir

For his important contributions to nuclear structure physics related to shape/phase transitions, academic leadership and services to the Nuclear Physics Division of EPS, for his impact on science policy, in particular for his decisive role in the approval and the construction of ELI-NP (the Extreme Light Infrastructure Nuclear Physics facility) in Bucharest, Romania.

Nikolay Zheludev, United Kingdom

For his pioneering and foundational work and international leadership in the fields of metamaterials, nanophotonics and nonlinear optics.

Antonino Zichichi, Italy

For his very important contributions to nuclear and subnuclear physics and to highly increasing the European and World collaboration in Physics.

