Prof. Dr. PARMIGIANI FULVIO

Professor Emeritus - University of Trieste (Italy)
APS Fellow
ELETTRA Fellow

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➢ BOLD CURRICULUM

- 1973: degree of Doctor in Physics (Laurea) at the University of Milan.
- 1976: researcher at the Quantum Electronic Division of CISE, Segrate (Milan) studying the optical and electronic properties of metal clusters.
- 1984 - 1985: visiting scientist at the IBM Research Center of San José, CA., working on the electronic structure of supported metal clusters and metallic layers grown under non-equilibrium conditions.
- 1989 - 1990: visiting scientist, to the IBM Almaden Research Center, CA.(USA), working on the physics of strongly correlated electron systems and High Temperature SuperConductor (HTSC).
- 1994: appointed full professorship in experimental physics at the Polytechnic of Milan, starting frontier experiments on the dynamics of non-equilibrium electron gas in metals.
- 1997 - 2004: professor of condensed matter physics at the faculty of Science of the Catholic university.

- 2004 - 2019: professor of condensed matter physics at the department of physics of the Università degli Studi of Trieste.

- 2014 - present: professor at the International Faculty of the University of Cologne.

- 1998: national coordinator of the INFM/PRA "Elphos" project to study the dynamics of electronic processes in condensed matter in the sub-ps domain and team-leader of the beamline BACH on the Elettra Synchrotron.

- 1998, 2000, 2003, 2005 and 2008: Italian national coordinator of the MIUR-PRIN projects on femtosecond time-resolved experiments.

- 2001 - 2015: Associate with the Lawrence Berkeley National Laboratory, CA. (2001-2015), contributing to the science cases of a X-ray FEL system based on a recirculating LINAC (LUX), a X-ray pulsed source based on laser-driven plasma acceleration (BELLA) and a MHz superconducting LINAC FEL (NGLS).

- 2003 - 2015: coordinator of the conceptual design and head of the scientific program (deputy director for science) for the FERMI free electron project at Elettra Sincrotrone Trieste.

- 2013-2018: honorary professor at the Zernike Institute of the University of Groningen (the Netherlands).

- 2013 - Appointed fellow of the American Physical Society.

- 2019 - Appointed fellow of the American Physical Society.

- 2006 - present: editor of Nuclear Instruments and Methods In Physics Research (A).

- 2012 - present: editor of Physics Letters Reports.

The major scientific interests are in the fields of non-equilibrium physics, photo-induced phase transitions and spectroscopies of strongly electron-correlated systems, magnetic materials and novel emerging materials.

Author of articles on the most prestigious international journals of physics such as, Science, Nature Materials, Nature Photonics, Nature Communications, Nano-Letters, Scientific Science Advance, Physical Review Letters, Physical Review B and Applied Physics Letters.

➢ EXPANDED CURRICULUM

• EDUCATION

1973: Doctor in Physics (Laurea)- Faculty of Science, Department of Physics, Università degli Studi di Milano, Milano, ITALY.

• CURRENT AND PREVIOUS POSITIONS

2020: Present: **Professor Emeritus University of Trieste**
2013-Present: **International Faculty, University of Cologne (D)**.
2019-2021: **Visiting Professor Radboud University Nijmegen (Netherlands)**
2004-2019: **Professor of Condensed Matter Physics - Università degli Studi di Trieste** (I)
2012-2013: **Zernike Professor, University of Groningen (Netherlands)**
1997-2019: **Research Associate Elettra Sincrotrone Trieste -Trieste (Italy)**
1997-2004: **Full professor of Condensed Matter Physics Catholic University Brescia - Italy**.
1994-1997: **Full professor of Physics at the Polytechnic of Milan - Italy.**
1991-1993: **Senior Scientist at CISE - Milan -Italy.**
1989-1990: **Visiting Scientist- IBM Almaden Research Center, CA., USA.**
1986-1988: **Senior Researcher Material Science Division - CISE -Milan -Italy.**
1984-1985: **Visiting Scientist- IBM Research Center, CA. (USA**).
1976-1984: **Researcher Division of Quantum Electronics - CISE -Milan-Italy.**

- **INSTITUTIONAL RESPONSIBILITIES**

2015- 2018 - **Director Department of Physics -University of Trieste (I).**
2003- 2015: **Science Director of the FERMI free electron laser facility, Trieste (I).**
2000- 2005: **Leader Electronic Structure and Magnetism Group at Elettra ST, Trieste (I).**
1998- 2013: **Group leader of the beamline BACH - Elettra Trieste (I).**
1986-1989 : **Responsible of the surface physics laboratory of CISE Milan (I).**

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- **MAJOR VISITING APPOINTMENTS**

2001-2015: **Affiliate LBNL - Berkeley CA (USA).**
2001 (summer) **Visiting scientist -Department of Physics, Stanford University CA (USA)**
2002 (summer) **Visiting scientist -Department of Physics, Stanford University CA (USA)**
1987(Spring): **Visiting scientist -Department of Chemistry, UC Berkeley CA (USA).**
1977(Summer): **Visiting researcher at the CERL (UK).**

- **MEMBERSHIPS**

Fellow American Physical Society from 2013.

- **FELLOWSHIPS AND AWARDS**

1973: Angelo Della Riccia Fellowship for the Laurea Thesis.

2012: Awarded of the 2012 "Zernike Chair Award" by the University of Groninge

2013-2018: Honorary Professor of the Faculty of Natural Science at the University of Groningen (NL).

2013: Fellow, American Physical Society.

2014: Awarded with the "Marco Polo Prize" by the Italian Embassy of Japan and the Kyoto Prefecture.

2019- ELETTRA FELLOW
https://www.elettra.trieste.it/comunicazione/events/elettra-fellow-to-prof-fulvio-parmigiani.html

2019-2020: Fellowship of the KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN (Royal Academy of Science of Netherlands).

2021: Awarded with the Beller Lectureship for the 2021 American Physical Society March Meeting.

➢ TEACHING

-1994-1997: Polytechnic of Milan:
classical mechanics;
elettrodynamics.

-1997- 2005: Faculty of Science at the Catholic University:
classical mechanics;
elettrodynamics;
atomic physics;
solid state physics.

-2005-present: Faculty of Science at the Università degli Studi di Trieste:
elettrodynamics;
optics;
quantum optics;
radiation-matter interaction;
spectroscopy,
photonics,
advanced electrodynamics.

- **SUPERVISION OF GRADUATE STUDENTS (2010-2019)**

> 19 PhD Students;
> 15 Master Students.

- **MAJOR CONTRIBUTION TO THE EARLY CAREER OF EXCELLENT RESEARCHERS**

➢ **Prof. Dr. Francesco Banfi** - Ph.D. University of Pavia - Full Professor University of Lyon (France).

➢ **Dr. Valentina Capogrosso**, PhD. University of Trieste - Process Engineer at ST Microelectronics, Milano (Italy).

➢ **Dr. Emanuela Carleschi** - Ph.D University of Trieste - Associate Professor University of Johannesburg (South Africa).

➢ **Dr. Cephise Chaco** - PhD Univ. of Manchester, Post-Doc T-ReX-Elettra, researcher at Artemis FAP STFC Rutherford Appleton Laboratory Harwell Oxford, BL scientist Diamond Didcot (UK).

➢ **Dr. Federico Cilento** – PhD University of Trieste - Senior scientist T-ReX Laboratory

Elettra Sincrotrone Trieste (Italy).

- **Dr. Cristina Consani** - Ph.D. EPFL Lausanne (CH), Silicon Austria Labs GmbH (Austria).

- **Dr. Giacomo Coslovich** - PhD Trieste, LBNL (Berkeley) an and SLAC (Stanford) (USA).

- **Dr. Alberto Crepaldi** - Ph.D. EPFL Lausanne (CH) - Post Doc T-ReX Laboratory Elettra Sincrotrone Trieste (Italy), Post-Doc EPFL Lausanne (CH), Assistant Professor Politecnico di Milano (Italy).

- **Prof. Dr. Andrea Damascelli** - Ph.D. University of Groningen. Full Professor University of British Columbia (Canada), Director Stewart Blusson Quantum Matter Institute, Vancouver (Canada).

- **Dr. Martina Dell'Angela** - Ph.D. University of Trieste – CFEL Hamburg - Post Doc T-ReX-Elettra, Researcher CNR (Italy).

- **Dr. Martina Esposito** - Ph.D. University of Trieste, Researcher CNR (Italy).

- **Prof. Dr. Daniele Fausti** - Ph.D. University of Groningen (NL)- post-doc CFEL Hamburg - Post-Doc Department of Physics UniTS - Associate professor University of Trieste (Italy).

- **Prof. Dr. Gabriele Ferrini** - Ph.D. Politecnico di Milano - Associate professor Università Cattolica del Sacri Cuore, Brescia (Italy).

- **Prof. Dr. Claudio Giannetti** - Ph.D. University of Milano - Associate Professor Università Cattolica Sacri Cuore (Italy).

- **Dr. Marco Malvestuto** - Ph.D. University of Bologna, Post-doc Elettra, Senior Scientist MagneDyn FEL-FERMI, Elettra Sincrotrone Trieste (Italy).

- **Prof. Dr. Norman Mannella** - Ph.D. UC-Davis, Professor Department of Physics, University of Tennessee (USA).

- **Dr. Matteo Montagnese** - Ph.D. Università Milano - Post-Doc university of Groningen -Post-doc University of Cologne - Maître-assistent (University of Geneva) - Senior Scientist -Silicon Austria Lab. (Villach, Austria).

- **Dr. Giulia Manzoni** - Ph.D. University of Trieste- Awarded the 2017 bi-annual prize "EUT Edizioni Università di Trieste" - for the PhD thesis in the field PE ERC field (Physical Sciences and Engineering). Monastero di Bose (Italy).

- **Dr. Novelli Fabio** - PhD. University of Trieste, Swinburne University of Technology -

Melbourne (Au); Post-doc Department of Physical-Chemistry Ruhr-University Bochum (Germany).

- **Prof. Dr. Stefania Pagliara** - Ph.D Università di Brescia - Associate Professor Università Cattolica del Sacri Cuore, Brescia (Italy).

- **Dr. Prashant Padmanabhan** - PhD Michigan State Univ., Post Doc II Institute of Physics, Univ. of Cologne, Post-Doc (3 months) T-ReX-Elettra, Post-doc Los Alamos National Laboratory (USA).

- **Dr. Daniel Payne** - Ph.D. University College London, Post-Doc T-ReX-Elettra, Editor with Springer-Nature (UK).

- **Dr. Emanuele Pedersoli** - Ph.D. University of Milan- Post doc. LBNL (Berkeley), Scientist DIPROI BL FEL-FERMI, Elettra Sincrotrone Trieste (Italy).

- **Dr. Simone Peli** - Ph.D. University of Milan, Post-Doc IIT India, Post-Doc T-ReX-Elettra (Italy).

- **Dr. Giuseppe Penco -** Ph.D, University of Milan, Italy - Senior Scientist Elettra Sincrotrone Trieste (Italy).

- **Dr. Francesco Randi** - Ph.D. University of Trieste, Post-Doc, Princeton University (USA).

- **Dr. Barbara Ressel** - PhD Univ. of Prague, Post-Doc T-ReX-Elettra, Associate Professor University of Nova Gorica (Slovenia).

- **Prof. Dr. Luigi E. Sangaletti** - Ph.D. University of Pavia. Full professor Università Cattolica del Sacri Cuore, Brescia (Italy).

- **Dr. Alberto Simoncig** - Ph.D. University of Trieste (awarded the prize for the best Ph.D. thesis of the department of physics), CFEL Hamburg, Scientist PADRES X-Ray Optics group FEL-FERMI, Elettra Sincrotrone Trieste (Italy).

- **Dr. Andrea Sterzi** - Ph.D. University of Trieste - Senior Photonic Engineer at Spiden AG (CH).

- **Dr. Marco Zangrando -** Ph.D. Czech Technical University (Prague – Czech Republic), IOM-CNR - Group Leader of the Photon Beam Transport System group at the FERMI FEL - ELETTRA (Italy).

- **Dr. Goran Zgrablic** - Ph.D. EPFL- T-ReX-Elettra, Assistant Professor Polytechnic University of Pula (Croatia). Centre for Advanced Laser Techniques Institute of Physics Bijenicka 46, Zagreb, Croatia

➢ RESEARCH EXPEDITIONS (2000-2019)

Free Electron Laser

Conceptual design and science cases of LUX (LBNL), FERMI@Elettra and NGLS (LBNL)-FEL photon beam transport-Photon beam diagnostics-FEL experimental end-stations. (See Italian free-electron laser, D. Pile, M.Svandrilk, F. Parmigiani, **NATURE PHOTONICS, 8**, 82-82, 2013 (interview).

Strongly electron-correlated materials, magnetism and HTSCs

Core level (XPS) and valence band (ARPES- RIXS) electronic structure-Magnetic properties (XMCD and XMLD)-Photo-induced phase transitions and non-equilibrium physics-Copper based high temperature superconductors-Phase transition in manganites and ruthenates.

Time-resolved optical and photoelectron spectroscopy

Super-continuum time resolved optical spectroscopy - Time resolved photoemission (linear and non-linear) - Time and spin resolved photoemission - Image potential states in metals and graphite. The research is devoted to elucidate the ultrafast processes in condensed and soft matter and their applications in technology. In particular, to study transient states and photo-induced phase transitions in superconductors (dynamics of quasi-particles, photon-boson interactions and the interplay between magnetism and superconductivity), magnetic materials (dynamics of the magnetic excitations) and electron correlations in hard- and soft- condensed matter (charge transfer and phonon assisted excitations).

• COMMISSIONS OF TRUST

- 2009: Technical Advisory Committee for the New Light Source (UK)
- 2009-2013: Member Scientific Advisory Committee of the SLS- PSI (CH)
- 2009: Scientific Advisory Committee Photon Factory–KEK Tsukuba, (J).
- 2012: UE56/1-BL (FEMTOSPEX, SGM) Review Panel BESSY II -Berlin (D).
- 2010-present: Chair of the Kai Siegbahn Elsevier award committee.
-2012-2015: Artemis FAP-STFC Rutherford Appleton Laboratory, Didcot (UK).
-2015-present: LCLS Review Panel -SLAC - Stanford

• LEADING OF MAJOR PROJECTS

2003-2015: **Leading the science programs for the FERMI FEL**

The FERMI light source is a novel and advanced free electron laser based on the HGHG (High Gain Harmonic Generation) external coherent seeding. Design for generating fully coherent EUV and soft X-ray pulses, today FERMI is a unique FEL source worldwide considered as the solely generating fully coherent EUV and soft X-ray radiation pulses. The experiments performed on FERMI are published in the major impact factor journals. These experiments extend from gas phase and dilute system (mass selected clusters) to quantum materials, magnetic dynamics and sub-micron-magnetic materials and X-ray quantum optics. This project was founded from different National and International founding agencies for an overall budget over M€ 180
See: http://www.elettra.trieste.it/lightsources/FERMI.html.

Along with FERMI a new laboratory for non-equilibrium and time resolved studies and experiments (T-ReX) has been built under my direction and is operating as a users facility in the FERMI experimental hall. With T-ReX are feasible experiments on time resolved optical spectroscopy and tire resolved ARPES in the sub ps time domain. In the last years T-ReX is operating in a joint collaboration with NFFA Europe (https://www.nffa.eu/) and is open to external users. See: https://www.elettra.trieste.it/labs/t-rex.html

2003-2007: National Coordinator of a MIUR-FIRB on *Nano- and micro-spectroscopy by synchrotron radiation integrated with advanced STM/AFM systems to study man-made, atomic scale functional materials*.

2003-2005: National Coordinator PRIN Project founded by MIUR (Italian Ministry for Education-University and Research) - *X-ray Magnetic Circular Dichroism (XMCD) and Resonant Inelastic X-ray Scattering (RIXS) experiments on magnetic nano-structures at the BACH beamline on the Elettra storage ring*.

2006-2007: Local Coordinator PRIN Project founded by MIUR (Italian Ministry for Education-University and Research) - *Magnetic Dynamics in Artificial Ferromagnetic Nanostructures.*

2010-2012: National Coordinator PRIN Project founded by MIUR (Italian Ministry for Education-University and Research) - *Phononic Crystals and Evanescent wave spectroscopy in the fs-time domain for measuring the bio-molecular dynamic interactions among angiogenetic factors*. Protocol # 2008JWKYXB.

- **MAJOR COLLABORATIONS**

2002-2005: **Accelerator and Fusion Research Division (AFRD) of the Lawrence Berkeley National Laboratory (LBNL)**. Important contribution to the conceptual design of an advanced coherent X-ray radiation source based on a "recirculating" LINAC. This new photon source was aimed at generating sub-picosecond coherent radiations from the EUV up to 10 keV (LUX project). **Particle Accelerator Conference, 2003. PAC 2003. Proceedings** (DOI: 10.1109/PAC.2003.1288874).

2010-2012: **BELLA project** in the frame of the Lasers, Optical Accelerator Systems Integrated Studies (LOASIS) –AFRD, **LBNL Berkeley**) for the construction of a 10-GeV laser-wakefield accelerator module that will provide powerful, intense electron beams with pulses as short as a femtosecond suitable for generating FEL radiation for research in materials science, life sciences, physics, and chemistry:
(http://www.slideserve.com/micheal/progress-with-laser-plasma-acceleration-and-prospects-of-lpa-hep-colliders).

2009-2013: **New Generation Light Source (LBNL**) - Contribution to the Science Case of the NGLS project.
http://www-als.lbl.gov/index.php/als-calendar/event/cWlwNWJrcWtnajRsYmNtb3FhYWVhaGFib3MgbGJsLmdvdl91aDI1ajdvcGZhMmhkczA0cWNnbmdpMHVxY0Bn/3.html?start=1298412000&end=1298415600.
2013-Present: Collaboration with the Physics Institute of Physics of the University of Cologne (D) **https://ph2.uni-koeln.de/**

➢ SCHOOLS AND MEETINGS 2010- present (SELECTED)

2021 - Invited talk APS March Meeting.

2018 - International Conference M2S HTSC Beijing (China).

2017 - Invited Tutorial FEL Conference, Santa Fe NM (USA).

2017 - Invited APS march Meeting New Orleans (USA).

2015 - Invited AVS October 18-23, San Jose (CA).

2015 - Invited International Conference M2S HTSC 2015 Geneva, Switzerland.

2014 - Invited E-MRS FALL Meeting, Symposium on Topological Materials, 22-25 Sept., 2014 -Warsaw (Polonia).

2012 - Invited Advanced Light Source User Meeting, Workshop "X-rays in the Fourth Dimension" - 5-6 May -LBNL- Berkeley (California).

2011 - U.S. *Department of Energy* Accelerator and *Detector* Research and Development Program *Contractors' Meeting*, *Annapolis*, Maryland, August 21-23, *(Invited plenary lecture)***.**

2011 - Instructor of Synchrotron Radiation Instrumentation and Applications at the US Particle Physics Accelerators School, Erice -Sicily.

2010 - Invited Seventh International Symposium on Ultrafast Surface Dynamics-USD7 Croatia 22-26 August.

2010 - Invited International Conference on Edge Topics in Correlated Materials, University of Paris-Sud and Collège de France.

2010 - Instructor of Synchrotron Radiation Instrumentation and Applications at the US Particle Physics Accelerators School - San Francisco, CA.

➢ EDITORIAL ACTIVITY AND PUBLICATIONS

2006-present - **Editor, Nuclear Instruments and Methods in Physics Research A** (Elsevier).

2012-present - **Editor for the Condensed Matter Section of Physics Reports** (Elesevier).

1992- G.F. Pacchioni, P.S. Bagus and **F. Parmigiani**, Eds. of "Cluster Models for Surface and Bulk Phenomena", (Plenum Press, New York, 1992) Serie B Physics vol. 283.

1994- P.S. Bagus, G.F. Pacchioni and **F. Parmigiani**, Eds. of " Core Level Spectroscopy for Magnetic Phenomena"(Plenum Press, New York, 1994) Serie B Physics vol. 345.

2011- Year Book of Science and Technology, McGRAW-HILL, 2011.

2016- Guest Editor for Synchrotron Radiation News, Special Issue on Seeded Free Electron

Lasers.

- **LEADERSHIP in HIGH IF PUBLICATIONS (2010-2020)**

1- *Distinctive Picosecond Spin Polarization Dynamics in Bulk half Metal*, **Physical Review Letters 121**, 077205 (2018).

2- *Dynamics of correlation-frozen antinodal quasi particles in superconducting cuprates* **Science Advances** 4 (2), eaar1998 (2018).

3- *Giant Magneto-electric coupling in 100 nm thick Co capped By ZnO nanorods*, **NANOSCALE** 10, 1326-1336 (2018).

4- *Probing the Fluctuation of Optical Properties in Time Resolved Spectroscopy*, **Physical Review Letters, 119**, 187403 (2017).

5- *Evidence for a strong Topological Insulator Phase in* $ZrTe_5$, **Physical Review Letters, 117**, 237601 (2016).

6- *Ultrafast optical spectroscopy of strongly correlated materials and high temperature superconductors: a non-equilibrium approach*, **Advances in Physics** 65, 58-238 (2016).

7- *Revisiting The local structure in Ge-Sb-Te based chalcogenide superlattice,* **Scientific Reports**, **6** 22353 (2016).

8- *Photon number statistics uncover the fluctuations in non-equilibrium lattice dynamics,* **Nature. Communications 6**, 10249 (2015).

9- *Ultrafast Optical Control of the Electronic Properties of Zr Te 5***Physical Review Letters**, **115**, 207402 (2015).

10 - *Momentum-Resolved Spin Dynamics od Bulk and Surface Excited States in the Topological* Bi_2Se_3*;* **Physical Review Letters, 114**, 097401 (2015).

11-*Witnessing the formation and relaxation of dressed quasiparticle in a strongly correlated electrons system*, **Nature. Communication. 5**, 5112 (2014).

12- *Ultrafast dynamics of massive Dirac Fermions in bilayer grapheme*, **Physical Review Letters**, **112**, 257401 (2014).

13- **PRL Viewpoint (**PRL 112, 257401(2014) on *Direct view of hot carriers dynamics in graphene*, **Physical Review Letters**, **111**, 027403 (2014).

14 - *Photo-enhanced antinodal conductivity in the pseudogap state of high-Tc cuprates*, **Nature. Communication**, **5**, 4353 (2014).

15 - *Tunable Carrier Multiplication and Cooling in Graphene,* **Nano Letters 15**, 326-331 (2014).

16- *Two stages seeded soft-X ray free electron laser*, **Nature Photonics**, **7**, 913 (2013).

17 - *Speed limit of the insulator-metal transition in magnetite*, **Nature Materials**, **12**, 882 (2013).

18 - *Competition between the pseudo gap and superconducting states in* $Bi_2Sr_2Ca_{1-x}Y_xCu_2O_{8+\delta}$ *superconductor by ultrafast broadband optical spectroscopy*, **Physical Review Letters, 110**, 107003 (2013).

19- *Highly coherent and stable pulses from the FERMI seeded FEL in the extreme ultraviolet*, **Nature Photonics**, **6**, 669 (2012).

20 - Disentangling the electronic and phononic glue in high Tc superconductors, **SCIENCE**, **335**, 1600 (2012).

21 - *Revealing the high-energy electronic excitations underlying the onset of high-temperature superconductivity in cuprates*, **Nature Communications, 2** 1354 (2011).

22- *The FERMI@Elettra free-electron-laser source for coherent x-ray physics: photon properties, beam transport system and applications***, New Journal of Physics 12**, 075002 (2010).

23 - *Ultrafast insulator-to-metal phase transition as a switch to measure the spectrogram of a supercontinuum light pulse*, **Applied Physics Letters, 96**, 021102 (2010).

- **PUBLICATIONS FULL RECORD AND BIBLIGRAPHIC METRICS:**

AUTHOR OR CO-AUTHOR OF MORE THAN 270 PUBLICATIONS IN INTERNATIONAL PEER REVIEWED JOURNALS.

FOR THE FULL LIST OF PUBLICATIONS SEE:
http://apps.webofknowledge.com/WOS_GeneralSearch_input.do?product=WOS&search_mode=GeneralSearch&SID=F2otXdfre838ww1rxHk&preferencesSaved=

https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Fulvio+Parmigiani&oq=Fu

- **REFERENCES**

Prof. Dr. Charles Shank - Former LBNL Director (Berkeley);
Prof. Dr. Andrea Cavalleri - MPI-CFEL Hamburg-University (D); Oxford University (UK).
Prof. Dr. Andrea Damascelli - University of British Columbia (Canada);
Prof. Dr. Norman Mannella - University of Tennessee (USA);
Prof. Dr. Claudio Pellegrini - SLAC (USA);
Prof. Dr. George Sawatzky - University of British Columbia (Canada);
Prof. Dr. Giorgio Margaritondo - École Polytechnique Fédérale de Lausanne (CH);
Prof. Dr. Majed Chergui - École Polytechnique Fédérale de Lausanne (CH);
Prof. Dr. Zhi-xun Shen - Stanford University (USA) and Chief Scientists SLAC;
Prof. Dr. Ingolf Lindau - SLAC and Stanford University (USA);
Prof. Dr. William A. Barletta – MIT (Cambridge, MA.) and USPAS director
Dr. Alexander Zholents - Accelerator Physicist -APS- Argonne Laboratory (USA)
Dr. William Fawley - FEL Physicist (SLAC, CA.);
Dr. Wim Leemans – DESY, Accelerator Physics Division Director (D)
Prof. Dr. Dirk van der Marel - Universitè de Genevè (CH);

Prof. Dr. Paul H.M. van Loosdrecht - University of Cologne (D);
Prof. Dr. Hermann Duerr – Uppsala University (S);
Prof. Dr. Maria Novella Piancastelli – Uppsala University (S);
Prof. Dr. Janos Hajdu - Uppsala University (S);
Prof. Dr. David Attwood – UC Berkeley, CA. (USA);
Prof. Dr. Giuseppe Pezzotti - Kyoto Institute of Technology (J)
Prof. Dr. Alexei Kimel, Radboud University, Nijmegen (NL)
Prof. Dr. Theo Rasing, Radboud University, Nijmegen (NL)
Dr. Riccardo Comin, MIT, Boston (USA)
Dr. Robert W. Schoenlein, LCLS Deputy for Science, Stanford (CA)