CURRICULUM VITAE

PERSONAL DETAILS

Name: Prof. Dr. Ferenc Krausz
Date of Birth: 17 May 1962
Place of Birth: Mór (Hungary)
Nationality: Hungarian, Austrian

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CURRENT AFFILIATIONS

Ludwig-Maximilians-Universität (LMU)
Chair of Experimental Physics – Laser Physics
Am Coulombwall 1
D-85748 Garching

Max-Planck-Institut für Quantenoptik (MPQ)
Director
Hans-Kopfermann-Str. 1
D-85748 Garching

APPOINTMENTS

Since 2015	**Director** Centre for Advanced Laser Applications (CALA)
Since 2012	**Director** Laboratory for Extreme Photonics (LEX-Photonics)
Since 2010	**Distinguished Visiting Professor** Pohang University of Science and Technology (POSTECH)
Since 2010	**Director** Munich-Centre for Advanced Photonics (MAP)
2007 – 2009	**Managing Director** Max-Planck-Institute of Quantum Optics (MPQ)
Since 2006	**Director** International Max Planck Research School of Advanced Photon Science (IMPRS-APS)
2006 – 2009	**Deputy Director** Munich-Centre for Advanced Photonics (MAP)
Since 2004	**Full Professor, Chair of Experimental Physics – Laser Physics** Ludwig-Maximilians-Universität (LMU)
Since 2004	**Director** Max-Planck-Institute of Quantum Optics (MPQ)
1999 – 2004	**Full Professor** Vienna University of Technology, Department of Electrical Engineering
1996 – 1998	**Assistant Professor** Vienna University of Technology, Department of Electrical Engineering

ACADEMIC EDUCATION

1993	**Habilitation with distinction** Vienna University of Technology, Department of Electrical Engineering
1991 – 1993	**Postdoctoral fellow** Vienna University of Technology, Department of Electrical Engineering
1991	**Ph.D. with distinction in laser physics** Vienna University of Technology, Department of Electrical Engineering
1988 – 1991	**Ph.D. studies** Vienna University of Technology, Department of Electrical Engineering
1985 – 1987	**Ph.D. studies** Budapest University of Technology, Institute of Physics
1985	**Diploma with distinction in electrical engineering** Budapest University of Technology
1981 – 1985	**Undergraduate studies in electrical engineering** Budapest University of Technology
	Undergraduate studies in theoretical physics Eötvös Loránd University, Budapest

RESEARCH FOCUS

Main Fields	Laser physics, X-ray physics, nonlinear optics, time-resolved spectroscopy
Current Interest	Synthesis of intense, controlled waveforms of laser light
	Real-time observation and control of electron motion in atomic systems
	Exploring the ultimate limits of electronics and routes for approaching them
	Development of laser-based sources and techniques for early diagnosis and therapy of cancer

MAJOR ACHIEVEMENTS

Co-invention of chirped multilayer mirrors and their use for the routine generation of few-cycle light

Generation and measurement of controlled light waveforms and isolated attosecond pulses, the use of these tools for real-time observation of the atomic-scale motion of electrons, including the first time-resolved measurement of the photo effect, inner-shell decay, optical-field-induced tunneling, valence electron motion, charge transport through atomic layers, and optical-field-induced changes in the physical properties of solids

These breakthroughs heralded the emergence of a new field: *attophysics*

For more details on research contributions, incl. peer-reviewed publications and selected talks, please visit http://www.attoworld.de/Mainpages/Team/index.html#448

RESPONSIBILITIES

2012	Co-founder of the Dennis-Gabor Society, Berlin (www.dennis-gabor.de)
2010 – 2014	Advising the President of the Hungarian Academy of Sciences on strategic matters
	Initiating, establishing, and coordinating collaborative research activities among 5 institutes of the Max-Planck-Society and 5 institutes around the Pacific Rim in the framework of the Max-Planck-Center for Attosecond Science
Since 2009	Initiating and coordinating the creation of the Laboratory of Extreme Photonics (LEX-Photonics) at the LMU for the advancement of the technology of few-cycle light
	Initiating and coordinating the creation of the Centre for Advanced Laser Applications (CALA) for the development of laser-driven brilliant X-ray and particle sources and their use for early cancer detection and therapy
Since 2008	Establishing and coordinating a research cooperation between the MPQ and the King Saud University at Riyadh (www.mpq.mpg.de/cms/mpq/en/projects/ksu/index.html)
Since 2007	Advising the President of the LMU on strategic matters
2007 – 2009	Managing and coordinating the work of scientific, technical and administrative staff (some 400 people) at the MPQ (www.mpq.mpg.de)
Since 2006	Establishing and directing the International Max Planck Research School of Advanced Photon Science, offering a world-class graduate training and education program for some 50 Ph.D. students from all over the world (www.mpq.mpg.de/APS)
	Establishing, coordinating, and (since 2010) directing the cross-disciplinary research activities of some 40 groups from 9 departments at the LMU and the Technical University of Munich, and the MPQ, in the areas of physics, chemistry, biology and medicine (www.munich-photonics.de
Since 2004	Coordinating and directing the research of more than a hundred researchers and technical staff at the LMU-MPQ Laboratory for Attosecond Physics (www.attoworld.de)

HONORS

	Thomson Reuters Citation Laureate in Physics, 2015[1]
	Listed in *The World's Most Influential Scientific Minds 2014*,[2] Thomson Reuters, United States of America, 2014
	Otto-Hahn-Preis of the DPG, GDCh and the City of Frankfurt/M, Germany, 2013
	King Faisal International Prize for Science, Saudi Arabia, 2013
	Knight's Cross of the Order of Merit of Hungary, 2012
	Member of the Academia Europaea, United Kingdom, since 2012
	Member of the European Academy of Sciences (EURASC), Belgium, since 2012
	Bundesverdienstkreuz am Bande (Order of Merit of the Federal Government), Germany, 2011
	Member of the Russian Academy of Sciences, Russia, since 2011

[1] http://thomsonreuters.com/en/press-releases/2015/september/thomson-reuters-forecasts-nobel-prize-winners.html
[2] http://sciencewatch.com/sites/sw/files/sw-article/media/worlds-most-influential-scientific-minds-2014.pdf (As of September 2014)

Falling-Walls Lecturer, falling-walls.com/lectures/ferenc-krausz, Germany, 2011

Honorary Professorship at the Shanghai Institute of Optics and Fine Mechanics, China, 2010

Visiting Professorship, King Saud University, Saudi Arabia, 2010

Distinguished Visiting Professorship, POSTECH, Korea, 2010

Fellow, Optical Society of America, USA, 2009

Honorary Professorship, Xian Institute of Optics, Chinese Academy of Sciences, China, 2009

Honorary Citizen, City of Mór, Hungary, 2009

ERC Advanced Investigator Grant, European Union, 2009

Member of the European Academy of Sciences and Arts, Austria, 2007

Member of the Hungarian Academy of Sciences, Hungary, 2007

Gottfried Wilhelm Leibniz-Prize, Deutsche Forschungsgemeinschaft, Germany, 2006

Prize of the City of Vienna for Natural and Technical Sciences, Austria, 2006

Progress Medal of the Royal Photographic Society, United Kingdom, 2006

Manne Siegbahn Memorial Lecture, Royal Swedish Academy of Sciences, Sweden, 2006

Max von Laue Memorial Lecture, Physikalische Gesellschaft zu Berlin, Germany, 2006

James Frank Memorial Lecture, Israel Academy of Sciences, Israel, 2006

Quantum Electronics Award, IEEE Laser and Electro-Optics Society, USA, 2006

Honorary Doctorate Degree from the Budapest University of Technology, Hungary, 2005

Honorary Professorship at the Vienna University of Technology, Austria, 2005

Member of the Austrian Academy of Science, Austria, 2003

Julius Springer Award in Applied Physics, Springer, Germany, USA, 2003

Wittgenstein Award, Federal Ministry of Science and Education, Austria, 2002

Carl Zeiss Award, Ernst Abbe Foundation, Germany, 1998

START Award, Federal Ministry of Science & Education, Austria, 1996

Fritz Kohlrausch Award, Austrian Physical Society, Austria, 1994