

Hrvoje Petek – Biographical Sketch/CV

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Education

BS 1980 Chemistry, MIT (Advisors: John Ross and R. W. Field)
PhD 1985 Chemistry, University of California, Berkeley (Advisor: C. B. Moore)

Appointments

Institute for Molecular Science

Postdoctoral Fellow, (Advisor: K. Yoshihara), 1985
Research Associate, Institute for Molecular Science, 1987

Hitachi Advanced Research Laboratory

Senior Research Scientist and Group Leader, 1993

University of Pittsburgh

Professor of Physics, 2000-2014
Professor of Chemistry, 2002-present
co-Director, Petersen Institute for Nanoscience and Engineering, 2005-2012
Richard King Mellon Chair of Physics and Astronomy, 2014-present

Ministry of Education, Culture, Sports, Science and Technology of Japan

National Research and Development Agency Committee for NIMS (2015-present)
Senior Advisor to the Director of the Inst. for Molecule Science, Japan (2017-present)

Professional Awards, Honors, Activities

Awards

National Science Foundation Predoctoral Fellow, 1980–1984
National Science Foundation Postdoctoral Fellow, 1985–1987
Yamada Science Foundation Postdoctoral Fellow, 1985
NEDO Joint International Research Grant Awardee, 1996–1999, 2003–2006
Alexander von Humboldt Research Award, 2000
Fellow, American Physical Society, 2003
Chancellor's Distinguished Research Award, University of Pittsburgh, 2005
Morino Award, Kyoto University, Japan, 2014
AAAS Fellow, 2016

Honorary Appointments

Visiting Professor, Hokkaido University, 2001
Eminent Visiting Professor, RIKEN, 2002–2005
Visiting Professor, Nat. Inst. for Materials Science, 2004–2005
Visiting Professor, Institute for Molecular Science, 2005–2007
Ikerbasque Professor, Donostia International Physics Center, 2007–2008
Senior International Visiting Professor (2012-13), President's International Fellowship (2015), Chinese Academy of Sciences, University of Science and Technology of China
Super Global Distinguished Professor, Keio University (2016)

Journal Editorial Boards

Progress in Surface Science, Editorial Board, 2000–06, Editor-in-Chief, 2006–present
Chemical Physics Letters, Editorial Advisory Board, 2013-15

Guest Editor

Chemical Physics, thematic issue on "Electron Dynamics in Metals," 2000
Chemical Reviews, "Photophysics and Photochemistry on Surfaces," 2006

Symposium Organizer

U.S.-Japan Workshop for Young Investigators in Molecular Science, Okazaki, 1989
Photon and Electron Induced Surface Processes, Hayama, Japan, 1999
Electron Dynamics at Interfaces, OSA Annual Meeting, Long Beach, 2001
Ultrafast Surface Dynamics IV, Telluride, 2003
Structure and Dynamics of Interfacial Water, APS March Meeting, Pittsburgh, 2009
Ultrafast Surface Dynamics VII, Brioni, Croatia, 2009
Frontiers of Photocatalysis, University of Science and Technology of China, 2011
Chemistry at the Space-Time Limit, 246th ACS National Meeting, Indianapolis, 2013
Ultrafast Dynamics in Nanoscale Systems, OIST, Okinawa, 2014, 2016
Fundamental Sci. of Photon and Electron Induced Surface Processes, Pacifichem 2015
Plasmonics and Beyond, APS March Meeting, Baltimore, 2016

Review & Advisory Panels

DCP Nominating committee member/chair, 2006–2008
DOE Workshop on the Future of Catalysis, 2002
NSF Instrumentation for Materials Research/MRI, 2004–2014
Visiting Committee, Surface Science Laboratory, RIKEN, (2006)
DOE Basic Research Needs for Electrical Energy Storage
Stanford SSRL X-RAY/VUV laser, proposal review panel, 2009–2010
EMSL, Molecular Science Computing Greenbook Panel, 2010
NSF-UC Irvine Center for Chemical Innovation on Chemistry at the Space-Time Limit,
Advisory Board Chair, 2010–2013
Ahmed Zewail Prize in Molecular Science Selection Committee, 2015
Chinese Academy of Science Program Review Panel, 2014-2015
DOE Environmental Molecular Science Laboratory Review Panel 2016
Lebanese American University Visiting Panel 2016

Professional Organizations

American Chemical Society, 1977–present
American Physical Society, 1980–present
American Association for the Advancement of Science, 2005–present

Courses Taught

Physics and Science Fiction, Electromagnetic Theory, Wave Motion and Optics, Intro.
to Quantum Mechanics, Solid State Phys., Mod. Phys. Lab., Adv. Solid State Physics

Publications

Contributed refereed publications: 140 Invited publications: 29
Books and book chapters: 9 Patents: 20 USA, European, and Japanese

Invited & Plenary Lectures/Colloquia (200 between 2005–present)

Graduated Students and Postdocs (University of Pittsburgh)

K. Onda (Kyushu U.), N. Pontius (BESSY II), A. Kubo (U. Tsukuba), J. Zhao (USTC), M.
Feng (Wuhan U.), C. Lin (Mitsubishi Electric), L. Wang, (Konica-Minolta), X. Cui (USTC),
B. Li (DESSY), V. Sametoglu (UBC), A. Constantinescu (U. Florida), A. Basak (Intel), A.
Argondizzo (II-VI Corp), S. Zhang (BNY Mellon), C. Wang (AIG)