MIHÁLY HORÁNYI - Curriculum Vitae

OFFICE ADDRESS

University of Colorado
Laboratory for Atmospheric and Space Physics
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Department of Physics
390 UCB, Boulder, CO 80309
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PERSONAL

Born in Budapest, Hungary
US citizen, married, three children

EDUCATION

Ph.D.	(Space Physics)	Loránd Eötvös University,	Budapest, Hungary, 1982
M.S.	(Nuclear Physics)	Loránd Eötvös University,	Budapest, Hungary, 1980

PROFESSIONAL EXPERIENCE

Director, NASA Solar System Exploration Research Virtual Institute (SSERVI): Institute for Modeling Plasmas, Atmospheres, and Cosmic Dust (IMPACT), 2013 - 2023

Director, NASA Lunar Science Institute: Colorado Center for Lunar Dust and Atmospheric Studies, 2008 - 2013

Humboldt Fellow, Max Planck Institute for Extraterrestrial Physics, Munich, Germany, 2006 - 2007

Associate Chair for Graduate Studies, Physics Department, University of Colorado, 2005 - 2006

Professor, Physics Department, University of Colorado, 2003 -

Associate Professor, Physics Department, University of Colorado, 1999 - 2003

Research Associate, Laboratory for Atmospheric and Space Physics, University of Colorado, 1992 -

Research Associate, Lunar and Planetary Laboratory, University of Arizona, 1989 - 1992

Visiting Scientist, Center for Space Research and Radio Astronomy, Cornell University, 1989

Research Scientist, Supercomputer Computational Research Institute, Florida State University, 1985 - 1989

Research Associate, Space Physics Research Laboratory, University of Michigan, 1984 - 1985

Research Associate, Central Research Institute for Physics, Budapest, 1982 - 1984

RESEARCH INTEREST

Space and laboratory plasmas. Electrodynamic processes and their role in the origin and evolution of the solar system. Comets, planetary rings, plasma surface interactions at moons and asteroids. In situ and remote observations of dust, and space hardware development. Dusty plasma physics in industrial manufacturing and environmental protection applications.

AWARDS

Fellow, American Physical Society, 2003
Fellow, Alexander von Humboldt Foundation, Germany, 2006
Fellow, American Geophysical Union, 2008
CU Boulder, ΣΠΣ Physics Professor of the Year, 2005
CU Boulder, Award for Excellence in Research, Scholarly, and Creative Work, 2006
Stardust Award of the International Dusty Plasma Physics Community, 2014
Asteroid 1998 AX9 is named 164701 Horanyi by the International Astronomical Union, 2018

NASA Group Achievement Awards

New Horizons Venetia Burney Student Dust Counter (VBSDC), 2007 and 2016
Cassini Cosmic Dust Analyzer (CDA), 2009 and 2018
LADEE Lunar Dust Experiment (LDEX), 2013

MEMBERSHIP

American Physical Society
American Geophysical Union
Elected Member, URSI (Commission H)
American Astronomical Society, Division of Planetary Sciences
American Association for the Advancement of Science

SELECTED PROFESSIONAL ACTIVITIES

Space missions

Principal Investigator: New Horizons Pluto Mission Student Dust Counter (SDC), 2002 -
Principal Investigator: AIM Mission Cosmic Dust Experiment (CDE), 2002 - 2012
Principal Investigator: LADEE Lunar Dust EXperiment (LDEX), 2009 - 2015
Principal Investigator: IMAP Interstellar Dust Experiment (IDEX), 2018 -
Principal Investigator: FOSSIL NASA Discovery Mission Concept Study 2017 - 2019
Principal Investigator: DUNE NASA Small Explorer Mission Concept Study 2007 - 2008
Co-Investigator: Rosetta Plasma Consortium (PI: K. Glaßmeier, Germany) 1997 - 2018
Co-Investigator: Galileo Dust Detector System (PI: E. Grün, Germany), 1998 - 2003
Co-Investigator: Cassini Cosmic Dust Analyzer (PI: R. Srama, Germany), 2000 - 2018
Co-Investigator: Europa Clipper Surface Dust Analyzer (PI: S. Kempf, USA), 2016 -

Books and journals

Associate Editor: Journal of Geophysical Research - Space Physics 1997 - 2001
Editor: 'Physics of Dusty Plasmas', eds: M. Horányi, S. Robertson and B. Walch, American Institute of Physics, 1998
Editor: 'Physics of Dusty Plasmas', eds: S. Robertson, Z. Sternovsky, M. Horányi, *IEEE Transactions on Plasma Science*, April 1, 2010
Editor: 'Lunar Dust Atmosphere and Plasma: The Next Steps (LDAP-2010)', M. Horányi, A. Stern, *Planetary and Space Sci.* November 1, 2011

Editor: 'Dust Atmosphere and Plasma: Moon and Small Bodies Next Steps (DAP-2012)', M. Horányi, A. Stern, *Planetary and Space Sci.* December 1, 2013
Editor: 'Dust Atmosphere and Plasma: Moon and Small Bodies Next Steps (DAP-2017)', M. Horányi, A. Stern, *Planetary and Space Sci.*, July, 2018.

SERVICE

National/international service

NASA Discovery Program Science Review Panel, 1996
NASA Advisory Committee on Solar System Exploration, 1999
NASA Micro-Gravity Fluids Science Review Panel, 2000, Chair 2004
NASA Planetary Atmospheres Program Science Review Panel, 2000
NASA Planetary Geology and Geophysics Program Science Review Panel, 2000
NSF Planetary Astronomy Program Science Review Panel, Chair, 2003
National Academy of Sciences Review Board 'Plasma Physics of the Local Cosmos', 2004
NASA Lunar Dust Toxicity Project Review Board, 2007–2008
NASA Lunar Atmosphere and Dust Explorer (LADEE) Science Definition Team, 2008
NASA Lunar Advanced Science and Exploration Research Review Panel, Chair, 2009
Organizer, Dust, Plasmas, Atmospheres (DAP) Workshops in Boulder, CO, 2010, 2012, 2017
Organizer, US Workshops on the Physics of Dusty Plasmas 1989, 1997, 2009
Organizing Committee International Conference on the Physics of Dusty Plasmas (ICPDP) in Goa, India 1996; Hakone, Japan 1999; Durban, South Africa 2002; Orleans, France 2005; Azores, Portugal 2008; Garmisch-Partenkirchen, Germany 2011; New Delhi, India 2014; Prague, Czech Republic 2017
Organizer, Workshop on Dust Charging and Beam-Dust Interaction in Particle Accelerators, Geneva, Switzerland 2023
NASA Planetary Data System Small Bodies Node Advisory Board, 2011 - 2018
NASA Advisory Council (NAC) Planetary Science Subcommittee (PSS), 2012 - 2016
Editorial Board of the journal *Plasma*, 2016 -
NASA OSIRIS-REx Participating Scientist Selection Panel, 2017
NASA Cassini Data Analysis Program Review Panel, Chair, 2018
National Academy of Sciences Space Studies Board Gateway Science Review Panel, 2018
NASA Small Bodies Assessment Group (SBAG) Steering Committee, 2020 -
NASA Physical Sciences Informatics (PSI) Program Review Panel, 2021

University of Colorado

Physics Comprehensive Exam Committee, 1999, Chair 2000 - 2005, 2017-2020
Physics Executive / Chair Advisory Committee, 2008 - 2011, 2022 -
Physics Graduate Committee, 2000 - 2004, Chair 2006 - 2007, 2014-2015
Physics Evaluation Committee, 2003-2004, 2017-2018
Physics Research Strategic Planning Committee, Chair 2016
Physics Strategic Planning Committee, Chair 2017 - 2018
Physics Strategic Plan Implementation Committee, 2019, Chair 2020 -2021
Physics Faculty Search Committee, 2009-2010, 2020 - 2021
Physics Graduate Student mentor, 2021 -
Physics Hiring Plan Committee, 2021
Phyiscs Program Review Committee, 1999
Physics Executive Committee, 2002 - 2006, 2022 -
Physics Comprehensive Exam Committee, 2023 -
LASP Faculty Search Committee, 2001, Chair 2010 - 2011, Chair 2019 - 2020

RESEARCH GRANTS as Principal Investigator (since 2000, total > $60M)

NASA	Dusty Plasmas in Planetary Magnetospheres	$225K	2000 - 2003
NASA	Cassini Cosmic Dust Analyzer (CDA)	$690K	2000 - 2009
NASA	Cassini Cosmic Dust Analyzer (CDA)	$360K	2010 - 2012
NASA	Cassini Cosmic Dust Analyzer (CDA)	$1.0M	2012 - 2017
DOE	Fundamentals of Dusty Plasmas	$450K	2001 - 2004
NASA	New Horizons Student Dust Counter (SDC)	$1.6M	2002 - 2006
NASA	New Horizons Student Dust Counter (SDC)	$2.2M	2007 - 2024
NASA	AIM Mission Cosmic Dust Experiment (CDE)	$1.6M	2003 - 2006
NASA	AIM Mission Cosmic Dust Experiment (CDE)	$600K	2007 - 2012
NASA	Dusty Plasma Issues for Surfaces in Space	$680K	2005 - 2008
NASA	Lunar Advanced Science and Exploration Research	$600K	2008 - 2012
NASA	Center for Lunar Dust and Atmospheric Studies	$5.0M	2009 - 2013
NASA	Lunar Dust Experiment for the LADEE Mission	$6.2M	2009 - 2013
NASA	Institute for Modeling Atmosphere, and Cosmic Dust	$6.0M	2013 - 2018
NASA	Institute for Modeling Atmosphere, and Cosmic Dust	$3.8M	2019 - 2024
NASA	Rosetta Plasma Observation	$600K	2014 - 2017
NASA	Constraining Na and K in the Lunar Exosphere	$120K	2016 - 2019
NASA	Understanding dust dynamics in Saturn's E-ring	$600K	2016 - 2020
NASA	IMAP Mission Interstellar Dust Experiment (IDEX)	$25 M	2018 - 2025
JPL	Identifying Planetary Mixed Materials	$440K	2020 - 2023
NASA	Modeling Lunar Dust Behavior	$750K	2020 - 2024
ASML	Dust Deposition in Semiconductor Manufacturing	$200K	2021 - 2022
NASA	Lunar Meteoroid Monitor (LMM)	$3.0M	2022 - 2025

RESEARCH GRANTS as Co-Principal Investigator (since 2000)

NASA	Charged Aerosols in the Mesosphere	$108K	2000 - 2003
NASA	Mesospheric Sampling Spectrometer	$670K	2003 - 2005
NASA	Mesospheric Aerosol Spectrometer Instrument	$310K	2005 - 2008
NASA	Large Area Mass Analyzer	$350K	2005 - 2006
ASML	Dust Deposition in Semiconductor Manufacturing	$300K	2022 - 2024

HONORS THESIS, GRADUATE STUDENTS, and POSTDOCS

Andrew R. Poppe	Summa Cum Laude	2006
Nicholas L. Bunch	Magna Cum Laude	2010
Michael Gerard	Cum Laude	2015
Juliet Pilewskie	Summa Cum Laude	2018
Noah F. Hood	Summa Cum Laude	2020
Anthony M. Carroll	Summa Cum Laude	2020
Ethan R. Ayari	Summa Cum Laude	2021
Alex C. Doner	Summa Cum Laude	2021
Olga Kalashnikova	Masters	2000
Keegan Amyx	Masters	2004
Dong Han	Masters	2010
Byron Smiley	Ph.D.	2003
Corinne E. Krauss	Ph.D.	2004
Collin Mitchell	Ph.D.	2006
David James	Ph.D.	2009
Andrew R. Poppe	Ph.D.	2011
Addie Dove	Ph.D.	2012
Anthony P. Rasca	Ph.D.	2013
Jamey R. Szalay	Ph.D.	2015
Marcus Piquette	Ph.D.	2019
Joseph Samaniego	Ph.D.	2020
Li Hsia Yeo	Ph.D.	2021
Edwin Bernardoni	Ph.D.	2022
Ethan Ayari	Ph.D.	
Alex Doner	Ph.D.	
Zoltan Sternovsky	Postdoc	2003 - 2006
Andrew Collette	Postdoc	2010 - 2013
Hsiang-Wen (Sean) Hsu	Postdoc	2011 - 2014
Jan Deca	Postdoc	2015 - 2018

COURSES TAUGHT

Fall 1999	Graduate Planetary Seminar	PHYS 7830/ASTR 5835
Spring 2000	Energy in a Technical Society	PHYS/ENVS 3070
Fall 2000	Methods of Theoretical Physics	PHYS 2140
Spring 2001	Analytical Mechanics	PHYS 3210
Fall 2001	Energy in a Technical Society	PHYS/ENVS 3070
Spring 2002	Methods of Theoretical Physics	PHYS 2140
Fall 2002	Energy in a Technical Society	PHYS/ENVS 3070
Spring 2003	Electricity and Magnetism I	PHYS 3310
	Graduate Planetary Seminar	PHYS 7830/ASTR 5835
Fall 2003	Electricity and Magnetism II	PHYS 3320
Spring 2004	Electricity and Magnetism I	PHYS 3310
Fall 2004	Electricity and Magnetism II	PHYS 3320
Spring 2005	Foundations of Modern Physics	PHYS 2170
Fall 2005	Mechanics and its Mathematical Methods I	PHYS 2210
Spring 2006	Mechanics and its Mathematical Methods II	PHYS 3210
Fall 2007	Mechanics and its Mathematical Methods II	PHYS 3210
Spring 2008	Foundations of Modern Physics	PHYS 2170
Fall 2008	Graduate Mechanics	PHYS 5210
Spring 2009	Graduate Plasma Physics	PHYS/ASTR 5150
Fall 2009	General Physics I	PHYS 1110
Spring 2010	Graduate Plasma Physics	PHYS/ASTR 5150
	Graduate Planetary Seminar	ASTR/GEOL 5835
Fall 2010	General Physics I	PHYS 1110
Spring 2011	Electricity and Magnetism I	PHYS 3310
Fall 2011	Electricity and Magnetism I	PHYS 3310
	Graduate Planetary Seminar	ASTR/GEOL 5835
Spring 2012	General Physics II Honors	PHYS 1120 H
Fall 2012	General Physics II	PHYS 1120
Spring 2013	General Physics II Honors	PHYS 1120 H
Fall 2014	General Physics III	PHYS 2130
Spring 2015	General Physics I	PHYS 2010
Fall 2015	General Physics I Honors	PHYS 1110 H
Spring 2016	Graduate Plasma Physics	PHYS/ASTR 5150
Fall 2016	General Physics I Honors	PHYS 1110 H
Spring 2017	General Physics II Honors	PHYS 1120 H
Fall 2017	General Physics I	PHYS 2010
Spring 2018	Electricity and Magnetism II	PHYS 3320
Fall 2018	General Physics II	PHYS 2020
Spring 2019	Graduate Plasma Physics	PHYS/ASTR 5150
Fall 2019	Electricity and Magnetism I	PHYS 3310
Spring 2020	General Physics I	PHYS 2010
Fall 2020	Sound and Music	PHYS 1240
Spring 2021	Sound and Music	PHYS 1240
Fall 2021	General Physics I	PHYS 1115
Fall 2022	Electricity and Magnetism I	PHYS 3310
Spring 2023	Experimental Physics	PHYS 1140
Spring 2024	Experimental Physics	PHYS 1140

REFEREED PUBLICATIONS (MH 0000-0002-5920-9226)
Google Scholar citations: >17,000, h-index = 68, i10-index = 263
(https://scholar.google.com/citations?user=icTs4wkAAAAJ&hl=en)
*student first author with M. Horányi as primary research supervisor

1, T.I. Gombosi, **M. Horányi,** T.E. Cravens, A.F. Nagy, C.T. Russell, The role of charge exchange in the solar wind absorption by Venus, *Geophys. Res. Lett. 8*, 1265, 1981

2, M. Horányi, K. Kecskemety, Percolation theory and the origin of comets, in: *Cometary Exploration*, ed: T.I. Gombosi, 1, 21, 1983

3, M. Horányi, T.I. Gombosi, T.E. Cravens, K. Kecskemety, A.F. Nagy, The friable sponge model of a cometary nucleus I in: *Cometary Exploration*, ed: T.I. Gombosi, 1, 59, 1983

4, T.I. Gombosi, **M. Horányi,** K. Kecskemety, T.E. Cravens, A.F. Nagy, Charge exchange in the solar wind cometary interaction, *Astrophys. J. 268*, 889, 1983

5, C.T. Russell, T.I. Gombosi, **M. Horányi,** T.E. Cravens, A.F. Nagy, Charge exchange in the magneto-sheaths of Venus and Mars, *Geophys. Res. Lett. 10*, 163, 1983

6, M. Horányi, K. Kecskemety, Cometary dust, *Asteroids, Comets, Meteors*, Uppsala 269, 1983

7, M. Horányi, T.I. Gombosi, T.E. Cravens, K. Kecskemety, A.F. Nagy, Korosmezey, The friable sponge model of a cometary nucleus, *Astrophys. J. 278*, 449, 1984

8, M. Horányi, D.A. Mendis, Trajectories of charged dust grains in the cometary environment, *Astrophys. J. 294*, 357, 1985

9, M. Horányi, D.A. Mendis, The dynamics of charged dust grains in the tail of comet Giacobini-Zinner, *J. Geophys. Res. 355*, 91, 1986

10, M. Horányi, D.A. Mendis, Space debris: Electrodynamic effects, *Adv. in Space Res. 6*, 127, 1986

11, T.I. Gombosi, **M. Horányi,** Modeling of dust halo formation following comet outbursts, *Geophys. Res. Lett. 13*, 299, 1986

12, M. Horányi, D.A. Mendis, The effects of electrostatic charging on the dust distribution at Halley's comet, *Astrophys. J. 307*, 800, 1986

13, T.I. Gombosi, **M. Horányi,** Time-dependent numerical modeling of dust halo formation at comets, *Astrophys. J. 311*, 491, 1986

14, M. Horányi, D.A. Mendis, The effect of a sector boundary crossing on the cometary dust-tail, *Earth, Moon and Planets 37*, 71, 1987

15, M. Horányi, T.E. Cravens, J.H. Waite, Jr., Jovian ion precipitation and related aeronomy, *J. Geophys. Res. 93*, 7251, 1988

16, M. Horányi, H.L.F. Houpis, D.A. Mendis, Charged dust in the Earth's magnetosphere, *Astronomy and Space Sci. 144*, 215, 1988

17, M. Horányi, The distribution of charged dust in the Earth's magnetosphere, in: Outstanding problems in Solar System Exploration, *AGU Geophysical Monograph 54*, 457, 1989

18, M. Horányi, C.K. Goertz, The coagulation of dust particles in a plasma, *Astrophys. J. 361*, 155, 1990

19, M. Horányi, J.A. Burns, M. Tatrallyay, J.G. Luhmann, Towards Understanding the Fate of Dust Lost from the Martian Satellites, *Geophys. Res. Lett. 17*, 853, 1990

20, *Lu Gan, T.E. Cravens and **M.Horányi**, Electrons in the Ionopause Boundary Layer of Venus, *J. Geophys. Res. 95*, 19023, 1990

21, M. Horányi, The spatial distribution of sub-micron sized debris in the terrestrial magnetosphere, *Adv. in Space Res. 10*, 403, 1990

22, D.A. Mendis, **M. Horányi**, Dust-Plasma Interaction in the Cometary Environment, in: Cometary Plasma Processes, *AGU Monograph 61*, 17, 1991

23, M. Horányi, D.A.Mendis, The Electrodynamics of Charged dust in the Cometary Environment, in: COMETS, eds: R.Newburn, M. Neugebauer, J. Rahe, Kluwer Academic Publishers, 1991

24, M. Horányi, M.Tatrallyay, A. Juhasz, J.G. Luhmann, The Dynamics of Sub-micron-sized Dust Particles Lost from Phobos, *J. Geophys. Res. 96*, 11283, 1991

25, M.Horányi, J.A. Burns, Charged Dust Dynamics: Orbital Resonances Due to Planetary Shadows, *J. Geophys. Res. 96*, 19283, 1991

26, L.L. Hood and **M. Horányi,** Gas Dynamic Heating of Chondrule Precursor Grains in the Solar Nebula, *Icarus 93*, 259, 1991

27, J.L. Lunine, S. Engel, B. Rizk and **M.Horányi**, Sublimation and Reformation of Icy Grains in the Primitive Solar Nebula, *Icarus 94*, 333, 1991

28, M. Horányi, J.A. Burns, D. Hamilton, The Dynamics and Origin of Saturn's E ring, *Icarus 97*, 248, 1992

29, M.Tatrallyay, **M.Horányi**, A. Juhasz, J.G. Luhmann, Sub-micron Sized Dust Grains in the Martian Environment, *Adv. in Space Res. 12*, (9)27, 1992

30, *A. Juhasz, M. Tatrallyay, G. Gevai and **M. Horányi,** The Density of Dust Halo Around Mars, *J. Geophys. Res. 98*, 1205, 1993

31, E.Grün, H.A. Zook, M. Baguhl, A. Balogh, S.J. Bame, H. Fechtig, R. Forsyth, M.S. Hanner, **M. Horányi,** J. Kissel, B.-A. Lindblad, D. Linkert, G. Linkert, I. Mann, J.A.M. McDonnell, G.E. Morfill, J.L. Phillips, C. Polanskey, G. Schwehm, N. Siddique, P. Staubach, J. Svetska and A. Taylor, Ulysses discovers dust emissions from Jupiter and probable interstellar grains, *Nature 362*, 428, 1993

32, M. Horányi, E. Grün, G. Morfill, Mechanism for the acceleration and ejection of dust grains from Jupiter's magnetosphere, *Nature 363*, 144, 1993

33, M. Horányi, E. Grün, G. Morfill, The dusty ballerina skirt of Jupiter, *J. Geophys. Res. 98*, 21245, 1993

34, L.L. Hood and **M. Horányi,** The Nebular Shock Wave Model for Chondrule Formation: One-Dimensional Calculations, *Icarus 106*, 179, 1993

35, *R.M. Canup, J.E. Colwell and **M. Horányi,** Size distributions of Satellite Dust Ejecta: Effects of Radiation Pressure and Planetary Oblateness, *Icarus 105*, 363, 1993

36, M. Horányi and C.C. Porco, Where exactly are the arcs of Neptune?, *Icarus 106*, 525, 1993

37, M. Horányi, Dust in Planetary Magnetospheres, *Adv. Space. Res. 13*, (10)231, 1993

38, D.A. Mendis and **M. Horányi**, Dust-Plasma Interaction in the Environment of Solar System Bodies of Negligible Intrinsic Magnetization, *COSPAR Colloquia Series 4*, 187, 1993

39, B. Walch, **M. Horányi**, and S. Robertson, Measurement of the charging of individual dust grains in a plasma, *IEEE Trans. Plasma Science 22,* 97, 1994

40, E. Grün, D.P. Hamilton, M. Baguhl, R. Riemann, **M. Horányi** and C. Polanskey, Dust streams from comet Shoemaker-Levy 9, *Geophys. Res. Lett. 21*, 1035, 1994

41, M. Horányi, New Jovian ring?, *Geophys. Res. Lett. 21*, 1039, 1994

42, M. Horányi, G. Morfill, C.K. Goertz and E.H. Levy, Chondrule formation in lightning discharges, *Icarus 114*, 174, 1994

43, J.T. Clarke, R. Prange, G. Ballester, J. Trauger, D. Rego, R. Evans, K. Stapelfeldt, W.-H. Ip, F. Paresce, J-C. Gerard, H. Hammel, M. Ballav, L. B. Jaffel, J-L. Bertaux, D. Crisp, C. Emerich, W. Harris, **M. Horányi,** S. Miller, A. Storrs, H. Weaver, Hubble Space Telescope Far-Ultraviolet Imaging of Jupiter During the Impacts of Comet Shoemaker-Levy 9, *Science 267*, 1302, 1994

44, M. Horányi, B. Walch and S. Robertson, Electrostatic charging properties of lunar dust simulants JSC-1 and MLS-1, *Geophys. Res. Lett. 22*, 2079, 1995

45, B. Walch, **M. Horányi**, and S. Robertson, Charging of Dust Grains in Plasma with Energetic Electrons, *Phys. Rev. Lett. 75*, 838, 1995

46, *A. Juhasz and **M. Horányi,** The dust torus around Mars, *J. Geophys.Res. 100*, 3277, 1995

47, M. Horányi and S. Robertson, Chondrule Formation in Lightning Discharges: Status of Theory and Experiments, in:*Chondrules and the Protoplanetary Disk*, eds: R.H. Hewins, R.H. Jones and E.R.D. Scott, Cambridge University Press, New York, 1996

48, J.E. Colwell and **M. Horányi,** Magnetospheric effects on micro-meteoroid fluxes, *J. Geophys. Res. 101*, 2169, 1996

49, E. Grün, M. Baguhl, D.P. Hamilton, R. Riemann, H.A. Zook, S. Dermott, H. Fechtig, B.A. Gustafson, M.S. Hanner, **M. Horányi**, K.K. Khurana, J. Kissel, M. Kivelson, B.A. Lindblad, D. Linkert, G. Linkert, I. Mann, J.A.M. McDonell, G.E. Morfill, C. Polanskey, G. Schwehm and R. Srama, Constrains from Galileo observations on the origin of Jovian dust streams, *Nature 381*, 395, 1996

50, M. Horányi, Charged Dust Dynamics in the Solar System, *Ann. Rev. Astron. Astrophys. 34*, 383, 1996

51, M. Horányi and T.E. Cravens, The Structure of the Jovian Ring, *Nature 381*, 293, 1996

52, E. Grün, D. Hamilton, R. Riemann, S. Dermott, H. Fechtig, B.A. Gustafson, M.S. Hanner, A. Heck, **M. Horányi,** J. Kissel, H. Kruger, B.A. Lindblad, D. Linkert, G. Linkert, I. Mann, J.A.M. McDonnell, G.E. Morfill, C. Polanskey, G. Schwemm, R. Srama, H.A. Zook, Dust Measurements During Galileo's Approach to Jupiter and Io encounter, *Science 274*, 399, 1996

53, M. Horányi, Unusual Dynamics of Circumplanetary Dust, in:*Inventory of the Solar System*, ed: T.W. Rettig and J.M. Hahn, Astronomical Society of the Pacific, 107, 129, 1996

54, E. Grün, P. Staubach, M. Baguhl, D.P. Hamilton, H.A. Zook, S. Dermott, B.A. Gustafson, H. Fechtig, J. Kissel, D. Linkert, G. Linkert, R. Srama, M. Hanner, C. Polanskey, **M. Horányi,** B.A. L indblad, I. Mann, J.A.M. McDonell, G.E. Morfill and G. Schwehm, South-North and Radial Traverses Through the Zodiacal Cloud, *Icarus 129*, 270, 1997

55, A. Juhasz and **M. Horányi,** Dynamics of charged space debris in the Earth's plasma environment, *J. Geophys. Res. 102*, 7237, 1997

56, E. Grün, H. Krüger, S. Dermott, H. Fechtig, A. L. Graps, B. A. Gustafson, D. P. Hamilton, M. S. Hanner, A. Heck, **M. Horányi,** J. Kissel, B. A. Lindblad, D. Linkert, G.

Linkert, I. Mann, J. A. M. McDonnell, G. E. Morfill, C. Polanskey, G. Schwehm, R. Srama, H. A. Zook, Dust measurements in the Jovian magnetosphere, *Geophys. Res. Lett. 24*, 2171, 1997

57, M. Horányi, E. Grün, A. Heck, Modeling the Galileo dust measurements at Jupiter, *Geophys. Res. Lett. 24*, 2175, 1997

58, D.W. Rusch, C.E. Randall, M.T. Callan, **M. Horányi,** R.T. Clancy, S.C. Solomon, S.J. Oltmans, B.J. Johnson, U. Koehler, H. Claude and D. De Muer, A New Inversion for SAGE II Data, *J. Geophys. Res. 103*, 8465, 1998

59, M. Horányi, B. Walch, S. Robertson and D. Alexander, Electrostatic charging properties of Apollo-17 lunar dust, *J. Geophys. Res. 103*, 8575, 1998

60, J. Colwell, **M. Horányi** and E. Grün, Jupiter's Exogenic Dust Ring, *J. Geophys. Res. 103*, 20023, 1998

61, E. Grün, H. Kruger, A. L. Graps, D. P. Hamilton, A. Heck, G. Linkert, H. A. Zook, S. Dermott, H. Fechtig, B. A. Gustafson, M. S. Hanner, **M. Horányi,** J. Kissel, B. A. Lindblad, D. Linkert, I. Mann, J. A. M. McDonnell, G. E. Morfill, C. Polanskey, G. Schwehm, R. Srama, Galileo Observers Electro-magnetically Coupled Dust in the Jovian Magnetosphere, *J. Geophys. Res. 103*, 20011, 1998

62, J. Colwell, **M. Horányi,** E. Grün, Capture of Interplanetary and Interstellar Dust by the Jovian Magnetosphere, *Science 280*, 88, 1998

63, H.Krüger, E. Grün, M. Landgraf, M. Baguhl, S. Dermott, H. Fechtig, B. A. Gustafson, D. P. Hamilton, M. S. Hanner, **M. Horányi,** J. Kissel, B. A. Lindblad, D. Linkert, G. Linkert, I. Mann, J. A. M. McDonnell, G. E. Morfill, C. Polanskey, G. Schwehm, R. Srama, H. A. Zook, Three years of Ulysses dust data: 1993 to 1995, *Planetary and Space Science 47*, 363, 1999

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INVITED TALKS (since 1996):

1, 'Dusty Plasmas in the Early/Present Solar System', Workshop on the Formation of Stars and Planetary Systems, Munich, Germany (2/96)

2, 'Charged dust dynamics in the Jovian Magnetosphere', Int. Conf. on the Physics of Dusty Plasmas, Goa, India (10/96)

3, 'Dust in the Earth's magnetosphere', AGU, Baltimore (5/97)

4, 'Dusty Plasmas in Space', Strongly Coupled Coulomb Systems, Boston, Mass. (8/97)

5, 'Dusty Plasmas in the Early Solar System', AGU, San Francisco, CA (12/97)

6, 'Dusty Plasmas in Magnetospheres', Plasma Astrophysics Meeting, Lindau, Germany (5/98)

7, 'Dust Input into the Earth's Atmosphere', CEDAR, Boulder (6/98)

8, 'Dusty Plasmas in Space', Latin American Space Geophysics, San Jose, Costa Rica (11/98)

9, 'Dusty Plasmas in the Mesosphere', URSI, Boulder, CO (1/99)

10, 'Dusty Plasma Simulations at Jupiter', URSI, Boulder, CO (1/99)

11, 'Jovian Dust Streams', Int. Conf. on the Physics of Dusty Plasmas, Hakone, Japan (5/99)

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13, 'Dusty Plasmas in Magnetospheres', IAGA, Birmingham, UK (7/99)

14, 'Dust Plasma Interaction in Planetary Magnetospheres', MOP, Paris, France (8/99)

15, 'Dusty Plasmas in Space', APS Div. Plasma Science, Seattle, WA (11/99)

16, 'Charged Dust Dynamics', Colloidal Plasmas, Trieste, Italy (7/00)

17, 'Dust Plasma Interactions in Planetary Magnetospheres', Symposium for E. Grün's 60th birthday, Heidelberg, Germany (4/2002)

18, 'Dusty Plasmas in the Solar System', Int. Conf. on the Physics of Dusty Plasmas, Durban, South Africa (5/2002)

19, 'Dusty Plasma Effects at Jupiter and Saturn', EGS, Nice, France (4/2003)

20, 'Dust Plasma Interaction in Saturn's Magnetosphere', Saturn Universe: Cassini Workshop, Capri, Italy, 2004

21, 'Dusty Plasma Effects in Saturn's Rings', APS, U. of Colorado, Colloquium, 2004

22, 'Dusty Plasmas', HAO/NCAR Colloquium, Boulder, 2004

23, 'Dusty Plasma Effects on the surfaces of the Moon and Mars', AGU, San Francisco (12/2004)

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27, 'Dusty Plasmas at Saturn', Symposium for G.E. Morfill's 60th birthday, Munich, Germany (8/2005)

28, 'Planetary Rings', Dust in Planetary Systems, Hawaii (9/2005)

29, 'The Student Dust Counter', AGU (12/2005)

30, 'Cosmic Dust Input into the Atmosphere of the Earth', AGU (12/2005)

31, 'Dusty Plasma Effects on Surfaces in Space', COSPAR, Beijing, China (7/2006)

32, 'The AIM Mission', COSPAR, Beijing, China (7/2006)

33, 'Dusty Plasmas in Planetary Rings', European Planetary Science Congress, Berlin, Germany (9/2006)

34, 'Dusty Plasmas on the Lunar Surface', AGU (12/2006)

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36, 'Dusty Plasmas in the Solar System', Max Planck Institute for Physics, München, Germany (4/2007)

37, 'Dusty Plasmas in Planetary Rings', University of Jena, Germany (6/2007)

38, 'Dusty Plasma Effects in Saturn's Rings', University of Kiel, Germany (6/2007)

39, 'Surface Plasma Interactions on the Moon', ICPDP-5, Azores, Portugal (5/2008)

40, 'Dusty Plasmas on the Lunar Surface', University of Kansas, Lawrence, KS (11/2008)

41, 'Dusty Plasmas in the Solar System', Rice University, Houston, TX (11/2008)

42, 'Charging of Planetary Rings', AGU (12/2008)

43, 'In Situ Measurements if Interplanetary and Interstellar Dust', UC Irvine, CA (03/2010)

44, 'Charged dust in the Solar System: Direct and Indirect Evidence', AAS, Miami, FL (5/2010)

45, 'Plasma Physics of the Lunar Surface', ICTP, Trieste, Italy (7/2010)

46, 'The Lunar Surface: A Dusty Plasma Laboratory', Robotic Science, Boulder, CO (10/2010)

47, 'Physics of the Lunar Surface', Colorado State University, Colorado Springs, CO (9/2011)

48, 'Solar wind plasma and UV effects on Surfaces in Space', AGU (12/2011)

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50, 'Dusty Plasmas at the Lunar Surface', European Lunar Forum, Berlin, Germany (4/2012)

51, 'Plasma Physis 101 for Geologists', LunGradCom, NASA AMES, (7/2012)

52, 'Dusty Plasma Processes on the Surfaces of Airless Planetary Bodies', Lunar Science Forum (7/2012)

53, 'The Student Dust Counter onboard the New Horizons Mission to Pluto', 5th meeting on Cosmic Dust, Kobe, Japan (8/2012)

54, 'The Lunar Surface: A Dusty Plasma Laboratory', Moscow Solar System Symposium (10/2012)

55, 'The Student Dust Counter', LASP Public Lecture Series (11/2012)

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57, 'Dust: the Missing Strategic Knowledge Gap', NASA Small Bodies Assessment Group Meeting, Washington DC (1/2013)

58, 'Hypervelocity Dust Impacts in Space and the Laboratory', European Physical Society Plasma Physics Meeting, Helsinki, Finnland (7/2013)

59, 'Dusty Plasmas in the Solar System', Heliospheric Summer School, Boulder, CO (7/2013)

60, 'The Student Dust Counter onboard the New Horizons Mission to Pluto', Pluto Science Conference, Baltimore, MD (7/2013)

61, 'The Lunar Surface: A Dusty Plasma Laboratory', Toronto, Canada (9/2013)

62, 'Institute for Modeling Plasmas, Atmospheres, and Cosmic Dust', NASA AMES (12/2013)

63, 'Grain Charging in Dusty Plasmas', AGU (12/2013)

64, 'Dust mobilization on the lunar surface', URSI (1/2014)

65, 'Dusty Plasmas in Space and the Laboratory', ICPDP, Delhi, India (3/2014)

66, 'The LADEE Mission', Denver Space Society', (3/2014)

67, 'The lunar dust environment: first results from LDEX', LASP, (3/2014)

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69, 'The lunar dust environment', Kyung Hee University, Suwon, S. Korea (5/2014)

70, 'New Dust measurements in the Solar System', Sao Paolo, Brasil (8/2014)

71, 'Dusty Plasma Measurements in Space and the Laboratory', APS Meeting, Orem UT (10/2014)

72, 'Dust Measurements throughout the Solar System', AGU (12/2014)

73, 'Characterizing the Lunar Regolith: Laboratory and Space Experiments', Granular Matter in Low-Gravity, Erlangen, Germany (3/2015)

74, 'Charged dust measurements by the Lunar Dust Experiment', WPDP, Auburn AL (5/2015)

75, 'Sources of Dust in the Solar System', Workshop on Cosmic Dust, Boulder, CO (7/2015)

76, 'The New Horizons Mission: First Results', Physics Colloquium, Boulder, CO (8/2015)

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79, 'The dust environment of Phobos and Deimos' at Mars, UCF Seminar Series, (11/2015)

80, 'The Dust Accelerator Facility at the University of Colorado', URSI, Boulder, CO (1/2016)

81, 'Dust Ablation in Pluto's Atmosphere', EGU, Vienna, (4/2016)

82, 'The Lunar Dust Environment', ESTEC, Nordwiijk, The Netherlands (6/2016)

83, 'The Lunar Dust Environment', Moscow, Russia (10/2016)

84, 'The Moon: Our Closest Neighbor, Colorado School of Mines, Golden, CO (10/2016)

85, 'Dusty Plasmas in the Solar System', Colloquium, Colorado Springs, CO (4/2017)

86, 'Dust Measurements in the Solar System', National Central University, Taiwan (7/2017)

87, 'Interplanetary and Interstellar Dust Near Earth', Caltech, Pasadena, CA (8/2017)

88, 'The Lunar Dust Experiment onboard the LADEE mission', IRF, Kiruna, Sweden (9/2017)

89, 'Dust Environment of Airless Planetary Bodies', Colloquium, U. Potsdam, Germany (11/2017) and Friedrich-Schiller-Universität Jena, Gemany (11/2017)

90, 'The Student Dust Counter Experiment', Colloquium, U. of Colorado (2/2018).

91, 'The Dust Environment of the Moon', European Lunar Forum, Toulouse, France, (5/2018)

92, 'The effects of dust charging in space and the laboratory', SCTC-2018, Kobe, Japan (6/2018)

93, 'Dust Environment of the Moon', Symposium on Space Innovation, Atlanta, GA (11/2019)

94, 'The Effects of Hypervelocity Dust Impacts', ISSI, Bern, Switzerland (1/2020)

95, 'The Lunar Dust Environment based on LADEE Results', ISSI, Bern, Switzerland (1/2020)

96, 'Lunar Dust Environment: Hazards and Opportunities', NESC Lunar Dust Workshop, Houston, TX (1/2020)

97, 'Dust Charging, mobilization, and transport on airless planetary bodies', International Online Seminar on Dusty Plasmas (4/2020)

98, 'The dust environment of the Moon', Colloquium, DLR - Institute for Materials Physics in Space, Köln, Germany (6/2020)

99, 'LDEX Observations of the lunar dust environment, Lunar Surface Science Virtual Workshop (8/2020)

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101, 'Dusty Plasmas: Space and Industrial Applications, ASML Workshop, The Netherlands (10/2020)

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