

Biographical Data - Uwe Fink

NAME: Uwe Fink

BORN: April 24, 1939, Goppingen, Germany

EDUCATION:

1961 B.S., Engineering Physics, University of Maine

1963 M.S., Physics, Pennsylvania State University

1965 Ph.D., Physics, Pennsylvania State University

ACADEMIC AND PROFESSIONAL APPOINTMENTS:

1961-64 Teaching and Research Assistant, Pennsylvania State University

1964-65 NSF Graduate Fellow, Pennsylvania State University

1965-66 Post-Doctoral Research Fellow, NAS-NRC, Belgian Institute for Space Astronomy, Brussels, Belgium

1967-68 Research Associate, Physics Dept., University of Arizona

1968-72 Assistant Research Professor, Lunar & Planetary Laboratory, University of Arizona

1972-84 Associate Professor, Lunar & Planetary Laboratory and Dept. of Planetary Sciences, University of Arizona

1984-93 Professor, Lunar & Planetary Laboratory and Dept. of Planetary Sciences, University of Arizona

1993-94 Humboldt prize winner and visiting professor at DLR, Institute for Planetary Exploration (PE), Berlin-Adlershof, Germany

1994- Professor, Lunar & Planetary Laboratory and Dept. of Planetary Sciences, University of Arizona

Uwe Fink: Publications (1)

1. U. Fink, D.H. Rank and T. A. Wiggins, Abundance of methane in the Earth's atmosphere, J. Opt. Soc. Am., **54**, 472-474 (1964).
2. D. H. Rank, U. Fink, J. V. Foltz and T. A. Wiggins, Intensity measurements on spectra of gases of planetary interest – H₂, H₂O and CO₂, Astrophys. J., **140**, 366-373 (1964).
3. D. H. Rank, E. M. Kiess, U. Fink and T. A. Wiggins, Brillouin Spectra of liquids using He-Ne laser, J. Opt. Soc. Am., **55**, 925-927 (1965).
4. D. H. Rank, U. Fink and T. A. Wiggins, High resolution measurements on the infrared absorption spectrum of HBr, J. Mol. Spectrosc., **18**, 170-183 (1965).
5. U. Fink, T. A. Wiggins and D. H. Rank, Frequency and intensity measurements on the quadrupole spectrum of molecular hydrogen, J. Mol. Spectrosc., **18** 384-395 (1965).
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8. U. Fink and P. Ville, A balloon-borne diffusing system for infrared radiation from 1u to 5u, Appl. Opt., **6**, 1424 (1967).
9. U. Fink, G. N. McIntire and S. Bashkin, Beam-foil excitation of multiply ionized nitrogen, J. Opt. Soc. Am., **58**, 475-479 (1968).
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14. H. P. Larson and U. Fink, Identification of carbon dioxide frost on the martian polar caps, Astrophys. J., **171**, L91-L95 (1972).
15. U. Fink, H. P. Larson, G. P. Kuiper and R. F. Poppen, Water vapor in the atmosphere of Venus, Icarus, **17**, 617-631 (1972).
16. U. Fink, N. H. Dekkers and H. P. Larson, Infrared spectra of the galilean satellites of Jupiter, Astrophys. J., **179**, L155-L159 (1973).
17. U. Fink, H. P. Larson and R. F. Poppen, A new upper limit for an atmosphere of CO₂, CO on Mercury, Astrophys. J., **187**, 407-415 (1974).
18. U. Fink and H. P. Larson, Temperature dependence of the water-ice spectrum between 1 and 4 microns: Application to Europa, Ganymede and Saturn's rings, Icarus, **24**, 411-420 (1975).
19. H. P. Larson, U. Fink, R. Treffers and T. N. Gautier, Detection of water vapor on Jupiter, Astrophys. J., **197**, L137-L140 (1975).
20. H. P. Larson and U. Fink, Infrared Fourier spectrometer for laboratory use and for astronomical studies from aircraft and ground-based telescopes, Appl. Opt., **14**, 2085-2095 (1975).
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70. U. Fink and M. DiSanti, The separate spectra of Pluto and its satellite Charon, Astron. J., **95**, 229-236 (1987).
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77. U. Fink, M.R. Combi and M.A. DiSanti, Comet P/Halley: Spatial distributions and scale lengths for C_2 , CN, NH_2 , and H_2O , Astrophys. J., **383**, 350-371 (1991).
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83. M. Hoffmann, U. Fink, W.M. Grundy M. Hicks, Photometric and spectroscopic observations of 5145 Pholus, JGR Planets, **98**, 7403-7407, (1993).
84. M.R. Combi and U. Fink, P/Halley: Effects of time-dependent production rates on spatial emission profiles, Astrophys. J., **409**, 790-797, (1993).
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87. M. Hicks, W. Grundy, U. Fink, S. Mottola, and G. Neukum, Rotationally resolved spectra of Clementine target 1620 Geographos, Icarus, **113**, 456-459 (1995).
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