

Name and Institution: ROBERT D. GEHRZ
University of Minnesota
Minnesota Institute for Astrophysics
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Minneapolis, MN 55455

Date of Birth: December 28, 1944

Education: B.A., physics, University of Minnesota, 1967
Ph.D., physics, University of Minnesota, 1971 (Advisor: Neville J. Woolf)

Experience: Research Associate, University of Minnesota, 1971-1972
Assistant Professor, University of Wyoming, 1972-1978
Associate Professor, University of Wyoming, 1978-1983
Director, Wyoming Infrared Observatory, 1983-1985
Professor, University of Wyoming, 1983-1985
Adjunct Professor, University of Wyoming, 1985-2000
Professor, University of Minnesota, 1985-present
Director, University of Minnesota Observatories, 1989-present
Interim Chair, Department of Astronomy, University of Minnesota, 2005-2006
Chair, Department of Astronomy, University of Minnesota, 2006-2011
Founding Director, Minnesota Institute for Astrophysics, 2011-2014

Honors and Awards: NASA Pre-Doctoral Traineeship (1968-71)
Fellow, Explorers Club, elected 1979
Fellow, American Assoc. for the Advancement of Science, 1995
President, American Astronomical Society, 1999-2001
Fellow, American Physical Society, 2004
NASA Group Achievement Award, 2004
St. Paul Minnesota Central High School Hall of Fame, 2010
Legacy Fellow, American Astronomical Society, 2020
Outstanding Instructor Award, University of Minnesota Institute of Technology Student Board, 1991, 1992, 1994, 2004, 2005, 2006

Affiliations: Member, American Astronomical Society
Member, International Astronomical Union
Fellow, American Physical Society 2004
Fellow, American Association for the Advancement of Science 1994
Member, Astronomical Society of the Pacific
Member, Sigma Xi
Fellow, Royal Astronomical Society
Fellow, Explorers Club, elected 1979

Professional
Activities

Director at Large, Associated Universities for Research in Astronomy, Inc. (AURA), 1976-1977

Member, NASA Focal-Plane Instrumentation Study Team (FIRST) for SIRTf, 1977-1980

Member, National Science Foundation (NSF) Astronomy Advisory Committee (AAC), 1977-1980

Chair, National Science Foundation Optical/Infrared Subcommittee, 1978-1980

Member, NASA Design Optimization Study Team (DOST) for SIRTf, 1978-1980

Member, National Academy of Sciences Astronomy Survey Committee (Field Committee), 1978-1982

Chair, Subcommittee on Galactic Astronomy, National Academy of Sciences Astronomy Survey Committee, 1978-1982

Member, NSF Subcommittee on Millimeter Wave Facilities, 1979

Member, Organizing Committee for KPNO workshop on Optical and Infrared Telescopes for the 1990's, 1979

Member, Steering Committee for IAU Symposium No. 96 on Infrared Astronomy, 1979-1980

Member, Steering Committee for KPNO Dark Site Sky Survey, 1980-1982

Member and Chair, AURA Observatories Visiting Committee, 1981-1984.

Member, Infrared Working Group (IRWG), University of California Ten Meter Telescope (TMT) Project, 1981-82

Member, Management Operations Working Group (MOWG) for the NASA Infrared Telescope Facility (IRTF), 1982-1987

Chair, NOAO National New Technology Telescope (NNTT) Scientific Advisory Committee (SAC), 1983-1984

Member, Ad Hoc Review Committee for the University of Texas Seven Meter Telescope Project, 1984

Member, Technology Review Committee for the Keck Telescope Project, 1984-1985

Member, NOAO Scientific Program Audit and Review Committee (SPARK), 1985-1986

Member, NSF Subcommittee on Large Optical/Infrared Telescopes, 1985-1986

Member, Space Telescope Advisory Committee (STAC), 1983-198

Chair, American Astronomical Society (AAS) Committee on Astronomy and Public Policy (CAPP), 1985-1987

Councilor, American Astronomical Society (AAS), 1986 - 1989

Member, NRC Committee on Planetary and Lunar Exploration (COMPLEX), 1986 - 1989

Chair, NOAO NNTT Infrared Imaging and Photometry Working Group, 1985 - 1987

Member, NSF Advisory Committee on Astronomy (ACAST), 1987 - 1990

Member, NSF Optical/Infrared Subcommittee of ACAST, 1987 - 1990

Member, Infrared Subcommittee of the NAS Astronomy and Astrophysics Survey Committee (Bahcall Committee), 1990 - 1991

Member, Steering Group of American Association for Advancement of Science (AAAS), Astronomy Section, 1991 - 1993

Chair, Project Management Review Team for the University of Texas/ Penn State University Spectroscopic Survey Telescope (HET), 1992

Chair and member, NASA IR Management Operations Working Group (IRMOWG), 1991 - 1995

Member and Member of the Executive Committee, NASA Astrophysics Subcommittee of the NASA Space Science and Applications Advisory Committee, 1992 - 1995

Member and Chair, Committee of External Advisors for Center for Antarctic Research in Astronomy (CARA), Yerkes Observatory, 1992 - 1997

Member, Space Infrared Telescope Facility (SIRTF) Science Working Group (SWG), 1992 - present

Member, Large Binocular Telescope Project Technical Review Committee, 1993

Chair, Gemini Project Primary Mirror Assembly Preliminary Design Review, 1993 - 1994

Member, Internal JPL SIRTF Replanning Peer Review, 1994

Chair, Gemini Project Systems Review Number One, 1994

Chair and member, International Gemini Board, 1996 - 1999

Member, NASA Origins Advisory Committee (OSC), 1996 - 1997

Member, NASA Space Science Advisory Committee (SScAC), 1997 - 2001

Member, NASA SScAC Mission Operations and Data Analysis (MO&DA) Task Force, 1997 - 1998

Chair, AURA Gemini Director Evaluation Committee, 1998

Member, NASA SIRTF Science Users Panel (SUP) 1998 - 2001

President Elect, American Astronomical Society, 1997 - 1998

Chair, NSF Division of Astronomical Sciences (AST) Portfolio Allocation Review (PAR) Committee, 1999

President, American Astronomical Society, 1998 - 2000

Past-President, American Astronomical Society, 2000 - 2001

Principal, SIRTf In-Orbit Checkout (IOC) Focus Integrated Products Team (IPT), 2000 - present

Member, NOAO Director's Balancing Review Committee, 2001

Member, External Review Committee, Department of Astronomy and MacDonalD Observatory, University of Texas, 2001

Member, External Review Committee, Institute for Astronomy, The University of Hawaii, 2001

Member, Institute for Astrophysical Research Advisory Board, Boston University, 2001 - 2007

Member, American Astronomical Society (AAS) Committee on Astronomy and Public Policy (CAPP), 2001 - 2003

Member, NAS Committee on Organization and Management of Research in Astronomy and Astrophysics (COMRAA), 2001

Chair, NSF/NASA National Astronomy and Astrophysics Advisory Committee (NAAAC), 2002 - 2005

Member, James Webb Space Telescope (JWST) Telescope Product Integrity Team (PIT), 2001- present

Member, James Webb Space Telescope Science Assessment Team (SAT), 2005

Member, Large Synoptic Survey Telescope (LSST) Site Selection Committee (SSC), 2005 - 2006

Member, NASA Stratospheric Observatory for Infrared Astronomy (SOFIA) Science Steering Committee (SSSC), 2007 - 2011

Leader, NASA Stratospheric Observatory for Infrared Astronomy (SOFIA) Community Task Force (SCTF), 2007 - 2011

Member, Canada Foundation for Innovation (CFI) Expert Committee #305, 2008

Member, Joseph Weber Award Committee, American Astronomical Society, 2008 - 2013

University of Minnesota Representative, Universities Space Research Corporation (USRA), Council of Institutions, 2011- present

Member and Chair, NASA Stratospheric Observatory for Infrared Astronomy (SOFIA) Users Group (SUG), 2012 -15

Member and Chair, Nominating Committee, Council of Institutions, Universities Space Research Corporation (USRA), 2016 – 2018

Principal Publications of Robert D. Gehrz (*†* refereed paper; *‡* invited review)

- †* 1. "Laser Mode Structure Experiments for Undergraduate Students," R.A. Phillips and R.D. Gehrz, 1970, Am. J. Phys., 38, 429.
- †* 2. "Interstellar Silicate Absorption Bands," Hackwell, J.A., R.D. Gehrz and N.J. Woolf, 1970, Nature, 227, 882.
- †* 3. "RV Tauri Stars: A New Class of Infrared Object," R.D. Gehrz and N.J. Woolf, 1970, Ap.J. (Letters), 161, L123.
- †* 4. "Observations of Anomalous Radiation at Long Wavelengths from Ic Class Variables," R.D. Gehrz, E.P. Ney and D.W. Strecker, 1970, Ap.J. (Letters), 161, L219.
- †* 5. "Mass Loss from M Stars," R.D. Gehrz and N.J. Woolf, 1971, Ap.J., 165, 285.
- †* 6. "Visual Intrinsic Polarization and Infrared Excess of Cool Stars," H.M. Dyck, W.J. Forrest, F.C. Gillett, W.A. Stein, R.D. Gehrz, N.J. Woolf and S.J. Shawl, 1971, Ap.J., 165, 57.
7. "Infrared Radiation from RV Tauri Stars," R.D. Gehrz, 1971, Ph.D. Thesis, University Microfilms, Ann Arbor, MI.
8. "The Core of Eta Carinae," R.D. Gehrz and E.P. Ney, 1972, Sky and Telescope, 44, 4.
- †* 9. "Infrared Radiation from RV Tauri Stars I: Survey of Infrared Radiation from RV Tauri Stars and Related Objects," R. D. Gehrz, 1972, Ap.J., 178, 715.
- †* 10. "Infrared Observations of Southern RV Tauri Stars," R.D. Gehrz and E.P. Ney, 1972, P.A.S.P., 84, 768.
- †* 11. "Dust Emission Nebulae Around Orion O and B Stars," E.P. Ney, D.W. Strecker and R.D. Gehrz, 1973, Ap.J., 180, 809.
- †* 12. "The Infrared Spectrum and Angular Size of Eta Carinae," R.D. Gehrz, E.P. Ney, E.E. Becklin and G. Neugebauer, 1973, Ap. Letters, 13, 89.
- †* 14. "Infrared Observations of Be Stars from 2.3 to 19.5 Microns," R.D. Gehrz, J.A. Hackwell and T.W. Jones, 1974, Ap.J., 191, 657.
- †* 15. "Infrared Photometry of Wolf-Rayet Stars from 2.3 to 23 Microns," J.A. Hackwell, R.D. Gehrz, and J.R. Smith, 1974, Ap.J., 192, 383.

- † 16. “New Infrared Measurements of W Virginis Stars,” R.D. Gehrz and J.A. Hackwell, 1974, Ap.J., 193, 385.
- † 17. “Infrared Photometry of High Luminosity Supergiants Earlier than M and the Interstellar Extinction Law,” J.A. Hackwell and R.D. Gehrz, 1974, Ap.J., 194, 49.
- † 18. “Circumstellar Dust Emission from WC9 Stars,” R.D. Gehrz and J.A. Hackwell, 1974, Ap.J., 194, 619.
- † 19. “Infrared Observations of BD-104661,” J.A. Hackwell, B.W. Bopp and R.D. Gehrz, 1974, Ap.J. (Letters), 192, L79.
- † 20. “Photometric Determination of the Radii of M Dwarfs,” B.W. Bopp, R.D. Gehrz and J.A. Hackwell, 1974, P.A.S.P., 86, 989.
- † 21. “8-13 Micron Maps of the Trapezium Region of the Orion Nebula,” R.D. Gehrz, J.A. Hackwell and J.R. Smith, 1975, Ap.J. (Letters), 202, L33.
- † 22. “A Search for Anonymous AFCRL Infrared Sources,” R.D. Gehrz and J.A. Hackwell, 1976, Ap.J. (Letters), 206, L161.
- † 23. “A Low Resolution Infrared Array Spectrometer System for 7-25 Micron Astronomical Observations,” R. D. Gehrz, J. A. Hackwell, and J. R. Smith, 1976, P.A.S.P., 88, 971.
- † 24. “Infrared Light Variations of Wolf-Rayet Stars,” J.A. Hackwell, R.D. Gehrz, J.R. Smith and D.W. Strecker, 1976, Ap.J., 210, 137.
- † 25. “Copernicus Spectra and Infrared Photometry of 42 Orionis,” H.M. Johnson, T.P. Snow, R.D. Gehrz and J.A. Hackwell, 1977, P.A.S.P., 89, 165.
- † 26. “Infrared Maps of W3 from 4.9 Microns to 20 Microns,” J.A. Hackwell, R.D. Gehrz, J.R. Smith and D.A. Briotta, 1978, Ap.J., 221, 797.
- † 27. “Infrared Colors and the Diffuse Interstellar Bands,” C. Sneden, R.D. Gehrz, J.A. Hackwell, D.G. York and T.P. Snow, 1978, Ap.J., 223, 168.
28. “Exploring the Infrared Universe from Wyoming,” R.D. Gehrz and J.A. Hackwell, 1978, Sky and Telescope, 55, 467.
- † 29. “Observations of the Highly Evolved Carbon Star CRL 3099,” R.D. Gehrz, J.A. Hackwell and D.A. Briotta, 1978, Ap.J. (Letters), 221, L23.
- † 30. “Dust Formation Around the Wolf-Rayet Star HD193793,” J.A. Hackwell, R.D. Gehrz and G.L. Grasdalen, 1979, Ap.J., 234, 133.

- † 31. “The Detection of an Optical Burst Coincident with an X-ray Burst from MXV1837+05 (Ser X-1),” J.A. Hackwell, G.L. Grasdalen, R.D. Gehrz, J. Paradijs, L. Cominsky and W.H.G. Lewin, 1979, Ap.J. (Letters), 233, L115.
- † 32. “RY Scuti: Silicates Around an Early Type Supergiant Binary System,” G.L. Grasdalen, J.A. Hackwell, R.D. Gehrz and D. McClain, 1979, Ap.J. (Letters), 234, L129.
- † 33. “The Optically Thin Dust Shell of Nova Cygni 1978,” R.D. Gehrz, J.A. Hackwell, G.L. Grasdalen, E.P. Ney, G. Neugebauer and K. Sellgren, 1980, Ap.J., 239, 570.
- † 34. “The Evolution of the Dust Shell of Nova Serpentis 1978,” R.D. Gehrz, G.L. Grasdalen, J.A. Hackwell and E.P. Ney, 1980, Ap.J., 237, 855.
35. “The Optical Identification of the Infrared Source in MWC 349,” A. Herzog, R.D. Gehrz and J.A. Hackwell, 1980, Ap.J., 236, 189.
36. “Imaging in Infrared,” A. Herzog, G.L. Grasdalen, J.A. Hackwell and R.D. Gehrz, 1980, Sky and Telescope, 59, 18.
- † 37. “On the Nature of the Peculiar Infrared Source AFGL 2636,” R.D. Gehrz, J.A. Hackwell, G.L. Grasdalen, K.M. Merrill, R.M. Humphreys, R.C. Puetter, R.W. Russell, S.P. Willner and F. Williamson, 1980, A.J., 85, 1071.
- † 38. “Optical Polarization and Infrared Spectrum of a Possible Protostar in a Reflection Nebula,” E.P. Ney, B.F. Hatfield and R.D. Gehrz, 1980, Proceedings, National Academy of Sciences (USA), 77, 14.
- ‡39. “Continuum Observations of the Infrared Sources in the Orion Molecular Cloud,” G.L. Grasdalen, R.D. Gehrz and J.A. Hackwell, 1980, in *Infrared Astronomy*, IAU Symposium #96, eds. C.G. Wynn-Williams and D.P. Cruikshank, (Dordrecht: Reidel), p. 179.
- † 40. “Interstellar Grain Size II: Infrared Photometry and Polarization in Orion,” M. Breger, R.D. Gehrz and J.A. Hackwell, 1981, Ap.J., 248, 963.
- † 41. “A Correlation Between Infrared Excess and Period for Mira Variables,” K. DeGioia-Eastwood, J.A. Hackwell, G.L. Grasdalen and R.D. Gehrz, 1981, Ap.J. (Letters), 245, L75.
- † 42. “10 and 20 Micron Images of Regions of Star Formation,” J.A. Hackwell, G.L. Grasdalen and R.D. Gehrz, 1982, Ap.J. 252, 250.

- † 43. “Anatomy of a Region of Star Formation: Infrared Images of S106 (AFGL 2584),” R.D. Gehrz, G.L. Grasdalen, M. Castelaz, C. Gullixson, D. Mozurkewich and J.A. Hackwell, 1982, *Ap.J.*, 254, 550.
- † 44. “Star Bursts and the Extraordinary Galaxy NGC 3690,” R.D. Gehrz, R.A. Sramek and D.W. Weedman, 1983, *Ap.J.*, 267, 551.
- † 45. “The Stellar Component of the Galaxy as Seen by the AFGL Infrared Sky Survey,” G.L. Grasdalen, R.D. Gehrz, J.A. Hackwell, M. Castelaz and C. Gullixson, 1983, *Ap.J. (Supplements)*, 53, 413.
46. “Maps of Eta Carinae at 6 Wavelengths Between 8 and 13 Microns,” J.A. Hackwell, R.D. Gehrz and G.L. Grasdalen, 1983, Technical Digest of the AAS/OSA Joint Topical Meeting on Information Processing in Astronomy and Optics.
47. “Application of the Maximum Entropy Statistical Method to the Reconstruction of Infrared Images,” G.L. Grasdalen, J.A. Hackwell and R.D. Gehrz, 1983, Technical Digest of the AAS/OSA Joint Topical Meeting on Information Processing in Astronomy and Optics.
- † 48. “The Mysterious 10 Micron Emission Feature of Nova Aquilae 1982,” R.D. Gehrz, E.P. Ney, G.L. Grasdalen, J.A. Hackwell and H.A. Thronson, 1984, *Ap.J.*, 281, 303.
- † †49. “The Formation of Stellar Systems from Interstellar Molecular Clouds,” R.D. Gehrz, D.C. Black and P.M. Solomon, 1984, *Science*, 224, 823.
- † 50. “An Infrared Spatial Study of the Planetary Nebula BD+303639,” A.F. Bentley, J.A. Hackwell, G.L. Grasdalen and R.D. Gehrz, 1984, *Ap.J.*, 278, 665.
- † 51. “Imaging with a Single Detector: The Wyoming Approach,” G.L. Grasdalen, J.A. Hackwell and R.D. Gehrz, 1984, *P.A.S.P.*, 96, 1017.
- † 52. “GSS30: An Infrared Reflection Nebula GSS30 in the Ophiucus Dark Cloud,” M.W. Castelaz, J.A. Hackwell, G.L. Grasdalen, R.D. Gehrz and C. Gullixson, 1985, *Ap.J.*, 290, 261.
- † 53. “Infrared Spectra and Interstellar Reddening of Anonymous Type II OH/IR Stars,” R.D. Gehrz, S.G. Kleinmann, S. Mason, J.A. Hackwell and G.L. Grasdalen, 1985, *Ap.J.*, 290, 296.
- † 54. “Infrared Sources and the Excitation of the W40 Complex,” J.R. Smith, A.F. Bentley, M.W. Castelaz, R.D. Gehrz, G.L. Grasdalen and J.A. Hackwell, 1985, *Ap.J.*, 291, 571.

- † 55. “A Neon Nova: Discovery of a Remarkable 12.8 Micron [Ne II] Emission Line in Nova Vulpeculae 1984 Number 2,” R.D. Gehrz, G.L. Grasdalen, and J.A. Hackwell, 1985, *Ap.J. (Letters)*, 298, L47; erratum 1986, *Ap.J. (Letters)*, 306, L49.
- † 56. “Spatially Extended 10m Emission from the Infrared Reflection Nebula GSS30,” M.W. Castelaz, R.D. Gehrz, G.L. Grasdalen and J.A. Hackwell, 1985, *P.A.S.P.*, 97, 924.
- † 57. “20-Micron Transparency and Atmospheric Water Vapor at the Wyoming Infrared Observatory,” G.L. Grasdalen, R.D. Gehrz, J.A. Hackwell and R. Freedman, 1985, *P.A.S.P.*, 97, 1013.
- † 58. “The Formation of Stellar Systems from Interstellar Molecular Clouds,” R.D. Gehrz, D.C. Black and P.M. Solomon, 1985, in *Astronomy and Astrophysics*, ed. M. S. Roberts, American Association for the Advancement of Science: Washington, D. C., p 131.
- † 59. “An Infrared Reflection Nebula Surrounding SGS1 in the NGC 1333 Dark Cloud,” M.W. Castelaz, J.A. Hackwell, G.L. Grasdalen and R.D. Gehrz, 1986, *Ap.J.*, 300, 406.
- † 60. “Morphology of the Nuclear Region of M82 at 2.2 Microns,” D. Dietz, J. Smith, J.A. Hackwell, R.D. Gehrz, and G.L. Grasdalen, 1986, *A.J.*, 91, 758.
- † 61. “Infrared Flux Excesses of the Warm Carbon Stars,” J.F. Dominy, D.L. Lambert, R.D. Gehrz, and D. Mozurkewich, 1986, *A.J.*, 91, 951.
- † 62. “The Neon Nova II: Condensation of Silicate Grains in the Ejecta of Nova Vulpeculae 1984 #2,” R.D. Gehrz, G.L. Grasdalen, M. Greenhouse, J.A. Hackwell, T. Hayward, and A.F. Bentley, 1986, *Ap.J. (Letters)*, 308, L63.
- † 63. “The Internal Structure of the Dust Shell of Carinae Deduced from 6-Channel 8-13m Mapping,” J.A. Hackwell, R.D. Gehrz, and G.L. Grasdalen, 1986, *Ap.J.*, 311, 380.
- † 64. “Velocity Structure of Stellar Atmospheres: R Scuti,” D.M. Mozurkewich, R.D. Gehrz, K.H. Hinkle and D.L. Lambert, 1987, *Ap.J.*, 314, 242.
- † 65. “Infrared Astronomy,” R.D. Gehrz, G.L. Grasdalen and J.A. Hackwell, 1987, *The Encyclopedia of Physical Science and Technology*, Vol. 2, 53.
- † 66. “Observations of Comet Halley on 13 March 1986,” T.L. Hayward, R.D. Gehrz, and G.L. Grasdalen, 1987, *Nature*, 326, 55.
67. “Infrared Temporal Development of P/Halley,” R.D. Gehrz and E.P. Ney, 1987, *ESA SP-250*, Vol. II, p. 101.

- † 68. “The Enigmatic Object Variable A in M33,” R.M. Humphreys, T.J. Jones, and R.D. Gehrz, 1987, *A.J.*, 94, 315.
- ‡ 69. “Matching Infrared Array Instruments to Future Large Telescopes,” R.D. Gehrz, 1987, in *Infrared Astronomy with Arrays*, eds. E.E. Becklin and C.G. Wynn-William, (University of Hawaii: Honolulu), p. 499.
- ‡ 70. “Cometary Dust Composition,” R.D. Gehrz and M.S. Hanner, 1988, in *Infrared Observations of Comets Halley and Wilson and Properties of the Grains*, ed. M. Hanner, NASA Conference Publication 3004, p. 50.
71. “Infrared Observations of P/Halley and P/Encke,” R.D. Gehrz and E.P. Ney, 1988, in *Infrared Observations of Comets Halley and Wilson and Properties of the Grains*, ed. M. Hanner, NASA Conference Publication 3004, p. 145.
- † 72. “An Eight-Element Bolometer Array Camera for the WIRO 2.34-m Telescope,” T.C. Williams, J.A. Hackwell, R.D. Gehrz, and G.L. Grasdalen, 1988, *P.A.S.P.*, 100, 124.
- † 73. “Near Infrared Light and the Morphology of Arp 220,” J.R. Smith, R.D. Gehrz, G.L. Grasdalen, J.A. Hackwell, and R.D. Dietz, 1988, *Ap.J.*, 329, 107.
- † 74. “On the Possibility of Dust Formation in Supernova 1987A,” R.D. Gehrz and E.P. Ney, 1987, *Proc. Nat. Acad. Sci. (USA)*, 84, 6961.
- † 75. “Infrared Coronal Lines of Nova Vulpeculae 1984 No. 2,” M.A. Greenhouse, G.L. Grasdalen, T.L. Hayward, R.D. Gehrz and T.J. Jones, 1988, *A.J.*, 95, 172.
- † 76. “PW Vul: A Dust Poor DQ Her?” R.D. Gehrz, T. Harrison, E.P. Ney, K. Matthews, G. Neugebauer, J. Elias, G.L. Grasdalen and J.A. Hackwell, 1988, *Ap.J.*, 329, 894.
- † 77. “The Infrared Temporal Development of Classical Novae,” R. D. Gehrz, 1988, *Ann. Rev. A. & A.*, 26, 377.
- † 78. “A Survey of IRAS Data on 41 Classical Novae,” R. D. Gehrz and T. Harrison, 1988, *A.J.*, 96, 1001.
- † 79. “Radio Images of the Expanding Ejecta of Nova QU Vulpeculae 1984,” A. R. Taylor, R. M. Hjellming, E. R. Seaquist, and R. D. Gehrz, 1988, *Nature*, 335, 705.
- † 80. “Supernova 1987a: Casting Light on the Ejecta,” R.D. Gehrz, 1988, *Nature*, 333, 705.
- † 81. “High Resolution H and K Mapping of W51,” S.J. Little, C. Gullixson, R.D. Dietz, J.A. Hackwell, R.D. Gehrz and G.L. Grasdalen, 1989, *A.J.*, 97, 1716.

- † 82. “Infrared Photometry and Spectroscopy of Comet P/Encke 1987,” R.D. Gehrz, E.P. Ney, J. Piscitelli, E. Rosenthal and A.T. Tokunaga, 1989, *Icarus*, 80, 280.
- † 83. “Infrared Imaging and Polarimetry of M82: Evidence for a Ring of Warm Dust,” 1989, R.D. Dietz, R.D. Gehrz, T.J. Jones, G.L. Grasdalen, J. Smith, C. Gullixson, and J.A. Hackwell, *A.J.*, 98, 1260.
- † †84. “Astronomy, Infrared,” R.D. Gehrz, G.L. Grasdalen and J.A. Hackwell 1989, in *The Encyclopedia of Astronomy and Astrophysics*, ed. R.W. Meyers (Academic Press: San Diego), pp. 1-28. (This article was originally published in *The Encyclopedia of Physical Science and Technology*.)
- ‡85. “Sources of Stardust in the Galaxy,” R.D. Gehrz, 1989, in *Interstellar Dust*, IAU Symposium #135, eds. L. Allamandola and A.G.G.M. Tielens (Reidel: Dordrecht), p. 445.
- ‡86. “New Infrared Results for Classical Novae,” R. D. Gehrz, 1990, in *Physics of Classical Novae*, eds. A. Cassatella and R. Viotti, Springer-Verlag: Berlin, p. 138.
- † 87. “The Infrared Coronal Lines of Recent Novae,” M. A. Greenhouse, J. Benson, G. L. Grasdalen, C. E. Woodward, R. D. Gehrz, A. Tokunaga, E. Rosenthal, M. F. Skrutskie, T. J. Jones and T. L. Hayward, 1990, *Ap. J.*, 352, 307.
- † 88. “The Infrared Spectrum of Comet Bradfield (1987s) and the Silicate Emission Feature,” M. S. Hanner, R. L. Newburn, R. D. Gehrz, T. Harrison, E. P. Ney, and T. L. Hayward, 1990, *Ap.J.*, 348, 312.
- † 89. “Near-Infrared Polarimetry and Mapping of Arp 299 (IC 694/NGC 3690),” T.J. Jones and R.D. Gehrz, and J. R. Smith 1990, *A.J.*, 99, 1470.
- † 90. “Photometry of Masing and Non-masing OH/IR Stars,” G. Lawrence, T.J. Jones and R.D. Gehrz, 1990, *A.J.*, 99, 1232.
- † 91. “Infrared Polarimetry of Radio Luminous OH/IR Stars,” T.J. Jones and R.D. Gehrz, 1990, *A.J.*, 100, 274.
- † 92. “An Infrared Study of Orion Molecular Cloud-2 (OMC-2),” J.J. Johnson, R.D. Gehrz, T.J. Jones, J.A. Hackwell and G.L. Grasdalen, 1990, *A.J.*, 100, 518.
- † 93. “Confirmation of Dust Condensation in the Ejecta of Supernova 1987a,” R.D. Gehrz and E.P. Ney, 1990, *Proc. Nat. Acad. Sci. (USA)*, 97, 4354.

- † 94. “Photometry of Variable AFGL Sources,” T. J. Jones, C. O. Bryja, R. D. Gehrz, T. E. Harrison, J. Johnson, D. Klebe, and G. F. Lawrence, 1990, *Ap. J. Suppl.*, 74, 785.
- † 95. “Starlight Morphology of the Interacting Galaxy NGC5195,” J. R. Smith, R. D. Gehrz, G. L. Grasdalen, J. A. Hackwell, R. D. Dietz, and S.D. Friedman, 1990, *Ap. J.*, 362, 455.
- † 96. “IRAS Observations of Classical Novae II. Modeling the Detections,” T. E. Harrison and R. D. Gehrz, 1991, *A. J.*, 101, 587.
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