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Professor Roberta M. Humphreys

Institution: University of Minnesota
School of Physics and Astronomy
Department of Astronomy
116 Church Street, S.E.
Minneapolis, MN 55455
612/624-6530
roberta@umn.edu

Education: B.A., Astronomy, Indiana University, 1965
M.A., Astronomy, University of Michigan, 1967
Ph.D., Astronomy, University of Michigan, 1969

Experience: Research Associate, Dyer Observatory, Vanderbilt University,
1969-1970
Research Associate, Steward Observatory, University of Arizona,
1970-1972
Assistant Professor, University of Minnesota, 1972-1976
Associate Professor, University of Minnesota, 1976-1983
Professor, University of Minnesota, 1983- 2017
College of Science & Engineering Distinguished Professor 2001 -- 2017
Associate Dean for Academic Affairs, Institute of Technology 2002 – 2007
Professor Emerita, University of Minnesota, 2017 – present

Scientific Interests: Stellar populations and stellar evolution, massive stars, Galactic structure.

Honors and Awards: Alfred P. Sloan Foundation Fellow, 1976-1980.
Fellow of the AAAS, 1980
George W. Taylor Award for distinguished research (U. of Minnesota) 1985
Alexander von Humboldt Distinguished Senior Scientist Award (Federal Republic of Germany), 1987-88.
Outstanding Instructor Award, I.T. Student Board, 1993
College of Science & Engineering Distinguished Professor, 2001 – 2017
Mullen-Spector-Truax Women's Leadership Award 2008 (U. of Minnesota)
Honorary Fellow of the Royal Astronomical Society, 2014
Fellow of the American Astronomical Society, 2021

Professional Affiliations: American Astronomical Society

Warner/Pierce Prize Committee, 1982-85; Chairman, 1983
Tinsley Prize Committee, 1994-96; Chairman, 1995-96
Nominating Committee, 1998-2000; Chairman 2000
Russell Prize Committee, 2011-2013, Chairman 2013
Astronomical Society of the Pacific
Board of Editors for Pub.A.S.P., 1992-94
American Association for the Advancement of Science
International Astronomical Union

University Activities (since 1995)

Senate/Faculty Consultative Committee, 1994-96
Search Committee for Provost Arts, Science and Engineering, 1994-95
Search Committee for Dean of I.T., 1995
Vice-Chair, University/Faculty Senate, 1995-96
University Senate, 1996-99
Arts, Science and Engineering Consultative Committee 1996-97
Senate/Faculty Consultative Committee, 1998-2000
Academic Appointments Subcommittee, 1998-99
Long Range Planning Committee, Physics, 1998-2000
Vice-Chair, University/Faculty Senate, 1999-2000
Clerk of the Senate, 2000-01
Senate Committee for Faculty Affairs, 2001-02
Search Committee for Vice-Provost for Faculty and Academic Affairs, 2004
University Senate 2007 - 2010
Women Faculty Cabinet 2007 -- 2010
Director of Undergraduate Studies, Astronomy, 2008 -- 2013
Research and Scholarly Advisory Panel to the VP for Research 2009-2010
Dean's Strategic Planning committee, 2009 – 2010
CSE Consultative Committee, 2010 – 2012, Chairman 2010 – 2011
Kaufmanis Lecure Committee (astrophysics) 2011-12 organized and recruited speaker
SOC for Workshop on "Outstanding Problems in Massive Star Research"
organized and chairing SOC 2011 – 12
Salary Equity Review Committee, CSE, chairman, 2014

Professional Activities (Since 1995)

AAS Tinsley Prize Committee, 1994-96, Chairman, 1995-96
NASA UV/Optical Review Panel, 1995
Hubble Fellows Review Panel, 1996
Scientific Organizing Committee for IAU Colloquium #169, "Variable and Non-Spherical Winds in Luminous Hot Stars," 1998

AAS Nominating Committee, 1998-2000; Chairman, 2000
NASA/NSF Review panel for SIM/NSTARS, 1999-2000
Scientific Organizing Committee for "Eta Car and Other Mysterious Stars," 1999-2000, Hven, Sweden
NSF Special Review Panel for AURA, 2000
International Astronomical Union, Scientific Organizing Committee for Commission #45, 2000-03
NSF Special Panel Review for ITR/NVO, 2001
NASA Senior Review of the Office of Space Science, 2001
University of Minnesota Member Representative to AURA, 2001-2004, 2004 – 2007, 2007 - 2010
Member Space Telescope Institute Council 2004 – 2010
IIVC for 2008
National Virtual Observatory Science Definition Team for NSF/NASA, 2001-2002
Chairman, Scientific Organizing Committee for “The Fate of the Most Massive Stars”, 2004, Grand Teton National Park
NASA Senior Review (astrophysics) 2006
Review panel for Institute for Astrophysical Research, Boston University, 2008
Review Committee for Physics Program, US Naval Academy 2010
Operations Readiness Review Committee for the LBT 2010 - 2011 and report to the Board of Directors
Henry Norris Russell Prize Committee, AAS, 2011-2013, Chairman 2013
NASA Senior Review of the Hubble Space Telescope 2014
NASA Senior Review of the Hubble Space Telescope, 2019

Publications in Refereed Journals
(189 in refereed publ. with 11,200 citations
All publications 11,980 citations, July 2021)
Significant and highly cited are highlighted.

2020 –

192 “Episodic Gaseous Outflows and Mass Loss from Red Supergiants”, R. M. Humphreys and T. J. Jones, 2022, AJ, 163, 103

191 “Molecules and Outflows in NML Cygni: New Insights from a 1 mm Spectral Line Survey”, A. P. Singh, J. L. Edwards, R. M. Humphreys, and L. M. Ziurys, 2021, ApJ Letters, 920L, 38

190 “The Altered State of η Carinae: HST's Photometric Record 1998-2021”, J. C. Martin, K. Davidson, K. Ishibashi, and R. M. Humphreys, 2021, RNAAS, 5, 197

189 “The Mass-loss History of the Red Hypergiant VY CMa”, R. M. Humphreys, K. Davidson, A.M.S. Richards, L. M. Ziurys, T. J. Jones, and K. Ishibashi, 2021, AJ, 161, 98

188 “Exploring the Mass-loss Histories of the Red Supergiants”, R. M. Humphreys, G. Helmel, T. J. Jones, and M. S. Gordon, 2020, AJ, 160, 145

2010 -- 2019

187 “Red Supergiants, Yellow Hypergiants, and Post-RSG Evolution”, M. S. Gordon and R. M. Humphreys, 2019 in *Galaxies*, MDPI, vol 7.

186 “The Complex Upper HR Diagram”, R. M. Humphreys, 2019, in *Galaxies*, MDPI, vol 7.

185 “The Unexpected Spectrum of the Innermost Ejecta of the Red Hypergiant VY CMa”, R.M.Humphreys, L. M. Ziurys, J. J. Bernal, et al. 2019, ApJ Letters, 874, L26

184 “Thermal Emission in the Southwest Clump of VY CMa”, M. S. Gordon, T. J. Jones, R. M. Humphreys, et al. 2019, AJ, 157, 57

183 “Luminous and Variable Stars in NGC 2403 and M81”, R. M. Humphreys, S. Stangl, M. S. Gordon, K. Davidson, and S. Grammer, 2019, AJ, 157, 22

182 “Eta Carinae’s Declining Outflow Seen in the UV, 2002-2015”, K.Davidson, K. Ishibashi, J. C. Martin, and R. M. Humphreys, 2018, ApJ. 858, 109

181 “Searching for Cool Dust. II. Infrared Imaging of The OH/IR Supergiants, NML Cyg, VX Sgr, S Per, and the Normal Red Supergiants RS Per and T Per”, M. S. Gordon, R. M. Humphreys, T. J. Jones et al. 2018, AJ, 155, 212

179 “Multi-epoch BVRI Photometry of Luminous Stars in M31 and M33 “ J.C. Martin and R. M. Humphreys, 2017 AJ, 154, 81

178 “ Luminous and Variable Stars in M31 and M33. V. The Upper HR Diagram”, R. M. Humphreys, K. Davidson, J.C. Martin, D. Hahn, and K. Weis, 2017, ApJ. 844, 40

177 “ Luminous and Variable Stars in M31 and M33. IV. Luminous Blue Variables, Candidate LBVs, B[e] Supergiants, and the Warm Hypergiants: How to Tell Them Apart”, R. M. Humphreys, M. S. Gordon, J. C. Martin, K. Weis, and D. Hahn 2017, ApJ., 836, 64

176 “ Multiple Outflows in the Giant Eruption of a Massive Star”, R. M.

Humphreys, J. C. Martin, M. S. Gordon, and T. J. Jones 2016, ApJ., 826, 191

175 `` On the Social Traits of Luminous Blue Variables'', R. M. Humphreys, K. Weis, K. Davidson, and M. S. Gordon 2016, ApJ., 825, 64

174 `` Luminous and Variable Stars in M31 and M33. III. The Yellow and Red Supergiants and Post-red Supergiant Evolution'' , M. S. Gordon, , R. M. Humphreys, and T. J. Jones 2016, ApJ., 825, 50

173 ``Searching for Cool Dust in the Mid-to-far Infrared: The Mass-loss Histories of the Hypergiants μ Cep, VY CMa, IRC+10420, and ρ Cas'', D. Shenoy, R. M. Humphreys, T. J. Jones, et al. 2016, AJ., 151, 51

172 ``Recovery from Giant Eruptions in Very Massive Stars'', A. Kashi, K. Davidson, and R. M. Humphreys, 2016, ApJ, 817, 66

171 "Eta Carinae's 2014.6 Spectroscopic Event: Clues to the Long-term Recovery from its Great Eruption", A. Mehner, K. Davidson, R. M. Humphreys et al. 2015, Astronomy & Astrophysics, 578, 122

170 "The Massive Star Population in M101. III. Spectra and Photometry of the Luminous and Variable Stars", S. H. Grammer, R. M. Humphreys, & J. Gerke, 2015, AJ, 149, 152

169 "A New Luminous Blue Variable in M31", R. M. Humphreys, J. C. Martin, M. S. Gordon, 2015, Pub.ASP, 127, 357

168 "Eta Carinae's 2014.6 Spectroscopic Event: The Extraordinary He II and N II Features", K. Davidson, A. Mehner, R. M. Humphreys, J. C. Martin, & K. Ishibashi, 2015, ApJ Letters, 801L, 15D

167 ``Constraints on the Surface Magnetic Fields and Age of a Cool Hypergiant: XMM-Newton X-Ray Observations of VY CMa'', R. Montez, Jr., J. H. Kastner, R. M. Humphreys, , R. Turok, & K. Davidson, 2015, ApJ., 800, 5

166 "Luminous and Variable Stars in M31 and M33. II. Luminous Blue Variables, Candidate LBVs, Fe II Emission Line Stars, and Other Supergiants", R. M. Humphreys, K. Weis, K. Davidson, D. Bomans, & B. Burggraf, 2014, ApJ, 790, 48

165 "The Massive Star Population in M101. II. Spatial Variations in the Recent Star Formation History", S. Grammer & R. M. Humphreys, 2014, AJ, 148, 58

164 "The Wind of Variable C in M33", R. M. Humphreys, K. Davidson et al. 2014, ApJ Letters, 782L. 21H

- 163 "The Massive Star Population in M101. I. The Identification and Spatial Distribution of the Visually Luminous Stars", S. Grammer & R. M. Humphreys, 2013, AJ, 146, 114
- 162 "Adaptive Optics Imaging of VY Canis Majoris at 2-5 μm with LBT/LMIRCam". D. Shenoy, T. J. Jones, R. M. Humphreys, et al. 2013, AJ, 146, 90
- 161 "Luminous and Variable Stars in M31 and M33. I. The Warm Hypergiants and Post-Red Supergiant Evolution", R. M. Humphreys, K. Davidson, et al. 2013, ApJ, 773, 46
- 160 "The Unusual Temporal and Spectral Evolution of SN2011ht. II. Peculiar Type II_n or Impostor?", R. M. Humphreys, K. Davidson, et al. 2012, ApJ, 760, 93
- 159 "The Great Eruption of Eta Carinae", K. Davidson and R. M. Humphreys, 2012, Nature, 486, E1
- 158 "The Unusual Temporal and Spectral Evolution of the Type II_n Supernova 2011ht", P. Roming, T. A. Pritchard, J. L. Prieto, J. L., C. S. Kochanek, C. L. Fryer, K. Davidson, R. M. Humphreys, et al. 2012, ApJ, 751, 92
- 157 "Secular Changes in Eta Carinae's Wind 1998-2011", A. Mehner, K. Davidson, R. Humphreys, et al., 2012, ApJ., 751, 73
- 156 "The Photometric and Spectral Evolution of the 2008 Luminous Optical Transient in NGC 300", R. Humphreys et al. 2011, ApJ., 743, 118
155. "Critical Differences and Clues in Eta Car's 2009 Event", A. Mehner, K. Davidson, J. C. Martin, R. M. Humphreys, K. Ishibashi, & G. Ferland 2011, ApJ., 740, 80
- 154 "Penetrating the Homunculus -- Near-Infrared Adaptive Optics Images of Eta Carinae", E. Artigau, J. C. Martin, R. M. Humphreys, K. Davidson, O. Chesneau, & N. Smith, 2011, AJ, 141, 202
- 153 "Mapping the Asymmetric Thick Disk. III. The Kinematics and Interaction with the Galactic Bar", R. M. Humphreys, T. C. Beers, J. E. Cabanela, S. Grammer, Y-S Lee, & J. A. Larsen, 2011, 141, 131153
- 152 "Mapping the Asymmetric Thick Disk. II. Distance, Size, and Mass of the Hercules Thick Disk Cloud", J. A. Larsen, J. E. Cabanela, & R. M. Humphreys 2011, AJ, 141, 130
- 151 "SN 2010U: A Luminous Nova in NGC 4214", R. M. Humphreys, et al. 2010 ,

ApJ. Letters, 718, 43

150 " A Sea Change in Eta Carinae", A. Mehner, K. Davidson, R. M. Humphreys, J. C. Martin, K. Ishibashi, G. Ferland, and N. Walborn, 2010, ApJ Letters, 717, 22

149 " The Morphology of the Post-Red Supergiant IRC+10420's Circumstellar Ejecta", C. Tiffany, R. M. Humphreys, T. J. Jones, & K. Davidson, 2010, AJ., 140, 339

148 " High-excitation Emission Lines near Eta Carinae, and Its Likely Companion Star", A. Mehner, K. Davidson, G. Ferland, & R. M. Humphreys, 2010, Ap.J., 710, 729

147 " Mid-Cycle Changes in Eta Carinae", J. C. Martin, K. Davidson, R. M. Humphreys & A. Mehner, 2010, A.J., 139, 2056

146 " Mapping the Asymmetric Thick Disk: I. A Search for Triaxiality", J. A. Larsen, J. E. Cabanela, R. M. Humphreys, & A. Havilland, 2010, A.J., 139, 348

2000 – 2009

145 "Imaging the Cool Hypergiant NML Cygni's Dusty Circumstellar Envelope with Adaptive Optics", M. T. Schuster, M. Marengo, J. L. Hora, G. G. Fazio, R. M. Humphreys, R. D. Gehrz, et al., 2009, Ap.J., . 699, 1424 .

144. "The 2008 Luminous Optical Transient in the Nearby Galaxy NGC 300", H. E. Bond, Luigi R. Bedin , Alceste Bonanos, Roberta M. Humphreys, B. Monard and Fred Walter, 2009, ApJ. Letters, 695, 154 .

143. "Mapping the Asymmetric Thick Disk: The Hercules Thick Disk Cloud", J. A. Larsen, R. M. Humphreys, & J. E. Cabanela, 2008, Ap, J. Letters, 687, 17.

142 " A Point-Source Survey of M31 with the Spitzer Space Telescope", J. R. Mould, et al., 2008, ApJ., 687, 230

141 "A Three-Decade Outburst of the LMC Luminous Blue Variable R127 Draws to a Close", N. Walborn, O. Stahl, R. C. Gamen, T. Szeifert, N.I. Morrell, N. Smith, I. D. Howarth, R. M. Humphreys, H. E. Bond, & D. J. Lennon, 2008, ApJ. Letters, 683, 33

140 "The Early Spectra of Eta Carinae 1893 - 1941 and the Onset of Its High Excitation Emission Spectrum", R. M. Humphreys, K. Davidson, & M. Koppelman, 2008, A.J., 135, 1249

139 "The M33 Variable Star Population of M33 Revealed by Spitzer", McQuinn, K. et al., 2007, Ap.J., 664, 850

- 138 “The 3D Morphology of VY Canis Majoris II. Polarimetry and the Line of Sight Distribution of the Ejecta”, T. J. Jones, R. M. Humphreys, L. A. Helton, et al, 2007, A.J., , 133, 2730.
137. “The 3D Morphology of VY Canis Majoris I. The Kinematics of the Ejecta”, R. M. Humphreys, L. A. Helton, & T. J. Jones, 2007, A.J., 133, 2716
- 136 “A Multi-scale Study of Infrared and Radio Emission from Scd Galaxy M33”, Tabatabaei, F. S., et al., 2007, A & A., 466, 509
135. “Dusty Waves on a Starry Sea: The Mid-Infrared View of M31”, Barmby, P., et al., 2006, ApJ., 650, 45.
134. “M33's Variable A: a Hypergiant Star More Than 35 Years in Eruption”, R. M. Humphreys, T. J. Jones, E. Polomski, M. Koppelman, et al., 2006, A.J., 131, 2105.
133. “On the He II Emission in η Carinae and the Origin of Its Spectroscopic Events”, J. C. Martin, K. Davidson, R. M. Humphreys, D. J. Hillier, & K. Ishibashi, 2006, ApJ., 640, 474.
132. “Understanding Radio-selected Thermal Sources in M33: Ultraviolet, Optical, Near-Infrared, Spitzer Mid-Infrared, and Radio Observations”, Buckalew, B. A., et al., 2006, ApJ Suppl., 162, 329.
131. “The Circumstellar Environments of NML Cygni and the Cool Hypergiants “, M. T. Schuster, R. M. Humphreys, & M. Marengo, 2006, A.J., 131, 603.
130. “A spectroscopic event of η Car viewed from different directions: The data and first results”, O. Stahl, K. Weis, D. J. Bomans, K. Davidson, T. R. Gull, & R. M. Humphreys, 2005, A & A, 435, 303.
- 129 “VLT UVES Observations of the Balmer Line Variations of η Carinae during the 2003 Spectroscopic Event”, K. Weis, O. Stahl, D. J. Bomans, K. Davidson, T. R. Gull, & R. M. Humphreys, R. M., 2005, A.J., 129, 1694.
- 128 “A Change in the Physical State of η Carinae?”, K. Davidson, J. Martin, R. M. Humphreys, K. Ishibashi, et al. 2005, A.J., 129, 900.
- 127 “High-Resolution, Long-Slit Spectroscopy of VY Canis Majoris: The Evidence for Localized High Mass Loss Events”, R. M. Humphreys, K. Davidson, G. Ruch & G. Wallerstein, 2005, A.J., 129, 492
126. “Energy Sources of the Far-Infrared Emission of M33” Hinz, J. L. et al 2004, ApJ Suppl., 154, 259.

125. "The Asymmetric Thick Disk: A Star Count and Kinematic Analysis II. The Kinematics", J. E. Parker, R. M. Humphreys, & T. Beers, 2004, A.J., 127, 1567.
124. "The Asymmetric Thick Disk: A Star Count and Kinematic Analysis I. The Star Counts", J. E. Parker, R. M. Humphreys, & J. A. Larsen, 2003, A.J., 126, 1346
123. "The Automated Plate Scanner Catalog of the Palomar Sky Survey II. The Archived Database", J. E. Cabanela, R. M. Humphreys, et al., 2003,
122. "Fitting a Galactic Model to an All-Sky Survey", J.A. Larsen and R.M. Humphreys, 2003, A.J., 125, 1958 .
121. "Crossing the 'Yellow Void' Spatially Resolved Spectroscopy of the Post - Red Supergiant IRC+10420 and Its Circumstellar Ejecta.", R.M. Humphreys, K. Davidson and N. Smith, 2002, A.J., 124, 1026 .
- 120 "Post-Eruption Detection of V12 in NGC 2403 (SN 1954j) - Another Eta Carinae-Like Variable," N. Smith, R.M. Humphreys and R.D. Gehrz, 2001, Pub.A.S.P., 113, 692.
- 119 "The Asymmetric Nebula Surrounding the Extreme Red Supergiant VY CMa," N. Smith, R.M. Humphreys, K. Davidson and R.D. Gehrz, 2001, A.J., 121, 1111.
- 118 "Recent Changes in the Near-Ultraviolet and Optical Structure of Eta Carinae," N. Smith, J.A. Morse, K. Davidson and R.M. Humphreys, 2000, A.J. 120, 920.
- 117 "Eta Carinae: Testing a Binary Orbit Model with HST/STIS," K. Davidson, K. Ishibashi, T.R. Gull, R.M. Humphreys and N. Smith, 2000, Ap.J. Letters, 530, L107

1990 – 1999

116. "An Unusual Brightening of Eta Carinae," K. Davidson, T.R. Gull, R.M. Humphreys, et al., 1999, A.J. 118, 1777.
115. "Eta Carinae's Second Eruption and the Light Curves of the Eta Carinae Variables," R.M. Humphreys, K. Davidson and N. Smith, 1999, Pub.A.S.P. 111, 1124.
114. "HST Images of the Compact Nebula Around RY Scuti," N. Smith, R.D. Gehrz, R.M. Humphreys, K. Davidson, et al., 1999, A.J. 118, 960.
113. "Strange Velocities in the Equatorial Ejecta Near Eta Carinae," T. Zethson, S. Johansson, K. Davidson, R.M. Humphreys and K. Ishibashi, 1999, A. & A., 344, 211.
112. "HST and Infrared Images of the Circumstellar Environment of the Cool Hypergiant IRC+10420," R.M. Humphreys, N. Smith and K. Davidson, et al., 1997,

A.J. 114, 2778.

111. "Eta Carinae and its Environment," K. Davidson and R.M. Humphreys, 1997, *Ann. Rev. Astron. Astrophys.* 35, 1.

110. "HST/GHRS Observations of the Compact Slow Ejecta of Eta Carinae," K. Davidson, D. Ebbets, S. Johansson, J.A. Morse, F.W. Hamann, B. Balick, R.M. Humphreys, G. Weigelt and A. Frank, 1997, *A.J.*, 113, 335

109. "A Large Asymmetry in the Galactic Distribution of Faint Halo/Thick Disk Stars," J.A. Larsen and R.M. Humphreys, 1996, *Ap.J. (Letters)*, 468, L99.

108. "Spectroscopy of the Bright Blue Objects in the Field of M81," F.-J. Zickgraf, Th. Szeifert and R.M. Humphreys, 1996, *A. & A.* 315, 510.

107. "Spectroscopic Study of the Outflowing Disk Winds of B[e] Supergiants in the Magellanic Clouds," F.-J. Zickgraf, R.M. Humphreys, H.J.G.L.M. Lamers, et al., 1996, *A. & A.* 315, 110.

106. "HST and Groundbased Observations of the Hubble-Sandage Variables in M31 and M33," Th. Szeifert, R.M. Humphreys, K. Davidson, T.J. Jones, O. Stahl, B. Wolf and F.-J. Zickgraf, 1996, *A. & A.*, 314, 131.

105. "The Sun's Distance Above the Galactic Plane," R.M. Humphreys and J.A. Larsen, 1995, *A.J.*, 110, 2183.

104. "HST/FOS Spectroscopy of Eta Carinae: The Star Itself and Ejecta Within 0.3 Arcsec," K. Davidson, D. Ebbets, G. Weigelt, R.M. Humphreys, et al., 1995, *A.J.* 109, 1784.

103. "Digitizing the Sky," ed. R.M. Humphreys, 1995, *Pub.A.S.P.* 107, 762.

102. "The Axial Ratio of the Galactic Stellar Halo," J. Larsen and R.M. Humphreys, 1994, *Ap.J. (Letters)*, 436, L149.

101. "Spectroscopic Observations of AB-Supergiants in M31 and M33," A. Herrero, D.J. Lennon, J.M. Vilchez, R.D. Kudritzki and R.M. Humphreys, 1994, *A. & A.*, 287, 885

100. "SN 1993J: The Optical Properties of Its Progenitor," G. Aldering, R.M. Humphreys, and M. Richmond, 1994, *A.J.*, 107, 662.

99. "The Lowest Mass Stars in the Hyades," C. Bryja, R.M. Humphreys and T.J. Jones, 1994, *A.J.*, 107, 246.

98. "The Luminous Blue Variables - Astrophysical Geysers," R.M. Humphreys and K. Davidson, 1994, *Pub.A.S.P.* 106, 1025.

97. "Star-Galaxy Separation with a Neural Network II. Multiple Schmidt Plate Fields," S.C. Odewahn, R.M. Humphreys, G.S. Aldering and P.M. Thurmes, 1993, Pub.A.S.P., 105, 1354.
96. "The Automated Plate Scanner Catalog of the Palomar Sky Survey I. Scanning Parameters and Procedures," R.L. Pennington, R.M. Humphreys, S.C. Odewahn, W. Zumach and P.M. Thurmes, 1993, Pub.A.S.P. 105, 521.
95. "He3-519 A Post-LBV, Proto-Wolf-Rayet Star," K. Davidson, R.M. Humphreys and A. Hajian, 1993, Ap.J., 411, 336.
94. "IRC+10420: A Cool Hypergiant Near the Top of the HR Diagram," T.J. Jones, R.M. Humphreys, R.D. Gehrz, G.F. Lawrence, et al, 1993, Ap.J., 411, 323.
93. "Improved CCD Standard Fields," S.C. Odewahn, C. Bryja and R.M. Humphreys, 1992, Pub.A.S.P., 104, 553.
92. "Candidate Brown Dwarfs in the Hyades," C. Bryja, T.J. Jones, R.M. Humphreys, G. Lawrence, R.L. Pennington and W. Zumach, 1992, Ap.J. (Letters), 388, L23.
91. "Automated Star/Galaxy Discrimination with a Neural Network," S.C. Odewahn, E.B. Stockwell, R.L. Pennington, R.M. Humphreys and W. Zumach, 1992, A.J., 103, 318.
90. "The Anomalous A-Type Supergiants in the Magellanic Clouds - Evidence for Post-Red Supergiant Evolution," R.M. Humphreys, R.P. Kudritzki and H.G. Groth, 1991, A. & A., 245, 593.
89. "BVR Photoelectric Sequences for Selected Fields in the Palomar Sky Survey and the Magnitude-Diameter Relation," R.M. Humphreys, R. Landau, F.D. Ghigo, W. Zumach, and A.E. Labonte, 1991, A.J., 102, 395.
88. "A Stellar Content Survey of NGC2403 and M81," F.-J. Zickgraf and R.M. Humphreys, 1991, A.J., 102, 113.
87. "CCD Photometric UBVR Sequences for NGC2403 and M81," F.-J. Zickgraf, R.M. Humphreys, M.L. Sitko and T. Manley, 1990, Pub.A.S.P., 102, 925.
86. "CCD Photometric UBVR Sequences for M83 and NGC5128," F.-J. Zickgraf, R.M. Humphreys, J.A. Graham and A. Phillips, 1990, Pub.A.S.P., 102, 920.
85. "Spectroscopy of Luminous Blue Stars in M31 and M33," R.M. Humphreys, P. Massey and W.L. Freedman, 1990, A.J., 99, 84.

1980 – 1989

84. "A Comparison of the Luminosity Functions in U, B and V and Their Relationship to the Initial Mass Function for the Galaxy and the Magellanic Clouds," C. Blaha and R.M. Humphreys, 1989, A.J., 98, 1598.
83. "S18: A New B[e] Supergiant in the SMC with Evidence for an Excretion Disk," F.J. Zickgraf, B. Wolf, O. Stahl and R.M. Humphreys, 1989, A. & A., 220, 206.
82. "The Distance and Evolutionary Phase of the Luminous Blue Variable AG Car," R.M. Humphreys, H.J.G.L.M. Lamers, N. Hoekzema and A. Cassatella, 1989, A. & A. (Letters), 218, L17.
81. "A Catalog of the Brightest Stars in the Field of M31," E. Berkhuijsen, R.M. Humphreys, F.D. Ghigo and W. Zumach, 1989, A. & A. Suppl. 76, 65.
80. "Distribution and Luminosity Function of OB Stars in M31," E. Berkhuijsen and R.M. Humphreys, 1989, A. & A., 214, 68.
79. "The Red Supergiants in M31: Spectra, Colors, and Luminosities," R.M. Humphreys, R.L. Pennington, T.J. Jones and F.D. Ghigo, 1988, A.J., 96, 1884.
78. "Variable C: An S Doradus Type Variable in M33," R.M. Humphreys, C. Leitherer, O. Stahl, B. Wolf and F.-J. Zickgraf, 1988, A. & A., 203, 306.
77. "The Visually Brightest Early-Type Supergiants in the Spiral Galaxies NGC2403, M81 and M101," R.M. Humphreys and M. Aaronson, 1987, A.J., 94, 1156.
76. "The Use of the Brightest Blue Supergiants as Distance Indicators - Further Complications or The Brightest `Stars' Are Not Always Stars," R.M. Humphreys and M. Aaronson, 1987, Ap.J. (Letters), 318, L69.
75. "The Enigmatic Object Variable A in M33," R.M. Humphreys, T.J. Jones, and R.D. Gehrz, 1987, A.J., 94, 315.
74. "UBVR Sequences in M31 and M33," R.M. Humphreys, M.L. Sitko, and A.K. Sitko, 1987, Pub.A.S.P., 99, 380.
73. "Massive Stars in Galaxies", R.M. Humphreys, 1987, Pub. A.S.P., 99, 5.
72. "Eta Carinae as a Possible Multiple System," K. Davidson and R.M. Humphreys, 1986, A. & A., 164, L7
71. "The M Supergiants in NGC 300," R.M. Humphreys and J.A. Graham, 1986, A.J., 91, 522.
70. "The Luminosities of M Supergiants and the Distances to M101, NGC2403 and M81," R.M. Humphreys, M. Aaronson, M. Lebofsky, C.W. McAlary, S.E. Strom and

R.W. Capps, 1986, A.J., 91, 808.

69. "Extreme Be Stars in the Magellanic Clouds," C.D. Garmany and R.M. Humphreys, 1985, A.J., 90, 2009.

68. "The Nucleus of the Giant Spiral M101," K. Davidson, R.M. Humphreys and C. Blaha, 1985, A.J., 90, 192.

67. "On the Initial Masses and Evolutionary Origins of Wolf-Rayet Stars," R.M. Humphreys, M. Nichols and P. Massey, 1985, A.J., 90, 101.

66. "M Supergiants in the Milky Way and the Magellanic Clouds: Colors, Spectral Types and Luminosities," J.H. Elias, J.A. Frogel and R.M. Humphreys, 1985, Ap.J. Suppl., 57, 91.

65. "The Initial Mass Function of Massive Stars in the Galaxy and the Magellanic Clouds", R.M. Humphreys and D.B. McElroy, 1984, Ap.J., 284, 565.

64. "The Luminosities of the M Supergiants in M33," R.M. Humphreys, T.J. Jones and M.L. Sitko, 1984, A.J., 89, 1155.

63. "IUE and Ground-Based Observations of the Hubble-Sandage Variables in M31 and M33," R.M. Humphreys, C. Blaha, S. D'Odorico, T.R. Gull and P. Benvenuti, 1984, Ap.J., 278, 124.

62. "The Most Luminous Stars," R.M. Humphreys and K. Davidson, 1984, Science, 223, 243.

61. "The Brightest Stars as Extragalactic Distance Indicators," R.M. Humphreys, 1983, Ap.J., 269, 335.

60. "Studies of Luminous Stars in Nearby Galaxies VIII. The Small Magellanic Cloud," R.M. Humphreys, 1983, Ap.J., 265, 176.

59. "M Supergiants and the Distance to M101," R.M. Humphreys and S.E. Strom, 1983, Ap.J., 264, 458.

58. "UBVRI Photoelectric Sequences for M83 and NGC5128," D.B. McElroy and R.M. Humphreys, 1982, Pub.A.S.P., 94, 828.

57. "Infrared Luminosities of M Supergiants and Their use as Distance Indicators," J. Elias, J. Frogel, R.M. Humphreys and S.E. Persson, 1981, Ap.J. (Letters), 249, L55.

56. "High Dispersion Spectroscopy of the Most Luminous F and G Type Supergiants in the LMC and Milky Way," W. Hagen, R.M. Humphreys and R. Stencel, 1981, Pub.A.S.P., 93, 567.

55. "HV 11417: A Peculiar M Supergiant in the Small Magellanic Cloud," J. Elias, J. Frogel and R.M. Humphreys, 1980, Ap.J. (Letters), 242, L13.
54. "Studies of Luminous stars in Nearby Galaxies VII. The Brightest Stars in the Spiral Galaxies M101 and NGC 2403," R.M. Humphreys, 1980, Ap.J., 241, 598.
53. "Studies of Luminous Stars in Nearby Galaxies VI. The Brightest Supergiants and the Distance to M33," R.M. Humphreys, 1980, Ap.J., 251, 587.
52. "On the Stellar Content and Structure of the Spiral Galaxy M33," R.M. Humphreys and A. Sandage, 1980, Ap.J. Suppl., 44, 319.
51. "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 and S.P. Willner, 1980, A.J., 86, 1071.
50. "Studies of Luminous Stars in Nearby Galaxies V. The Local Group Irregulars NGC 6822 and IC 1613," R.M. Humphreys, 1980, Ap.J., 238, 65.
49. "On the Warped Optical Plane in M33," A. Sandage and R.M. Humphreys, 1980, Ap.J. (Letters), 236, L1.
48. "The Perplexing Spectrum of AFGL 2789," R.M. Humphreys, K.M. Merrill and J.H. Black, 1980, Ap.J. (Letters), 237, L17.

1970 – 1979

47. "Studies of Luminous Stars in Nearby Galaxies IV. Baade's Field IV in M31," R.M. Humphreys, 1979, Ap.J., 234, 854.
46. "Studies of Luminous Stars in Nearby Galaxies III. Comments on the Evolution of the Most Massive Stars in the Milky Way and the Large Magellanic Clouds," R.M. Humphreys and K. Davidson, 1979, Ap.J., 232, 409.
45. "M Supergiants and the Low Metal Abundances in the Small Magellanic Cloud," R.M. Humphreys, 1979, Ap.J., 231, 384.
44. "UBV Photometry in the Dwarf Irregular Galaxy NGC 6822," S. van den Bergh and R.M. Humphreys, 1979, A.J., 84, 604
43. "LP182-44: A Faint, High Velocity Degenerate Star with Probable Carbon Features," R.M. Humphreys, J. Liebert, W. Romanishin and P.A. Strittmatter, 1979, Pub.A.S.P., 91, 107.
42. "Studies of Luminous Stars in Nearby Galaxies II. M Supergiants in the Large

Magellanic Cloud," R.M. Humphreys, 1979, Ap.J. Suppl., 39, 389.

41. "Studies of Luminous Stars in Nearby Galaxies I. Supergiants and O-Type Stars in the Milky Way," R.M. Humphreys, 1978, Ap.J. Suppl., 38, 309.

40. "Infrared Detections of Luminous Stars in M31 and M33," R.M. Humphreys and J.W. Warner, 1978, Ap.J. (Letters), 221, L73.

39. "Optical and Infrared Observations of the New Emission-Line Object HM Sgr," K. Davidson, R.M. Humphreys and K.M. Merrill, 1978, Ap.J., 220, 239.

38. "Luminous Variable Stars in M31 and M33," R.M. Humphreys 1978, Ap.J., 219, 445.

37. "The Near-Infrared Spectrum of XX Oph," R.M. Humphreys and J.S. Gallagher, 1977, Pub.A.S.P., 89, 182.

36. "A Model for the Local Spiral Structure of the Galaxy," R.M. Humphreys, 1976, Pub.A.S.P., 88, 647.

35. "CRL 2688 - 'The Egg Nebula' - Preplanetary Nebula or Protostellar System?" R.M. Humphreys, J.W. Warner and J.S. Gallagher, 1976, Pub.A.S.P., 88, 380.

34. "Comments on Some Spectra of the Crab Nebula," K. Davidson and R.M. Humphreys, 1976, Pub.A.S.P., 88, 312.

33. "A Binary Model for the Infrared Source HD 101584," R.M. Humphreys, 1976, Ap.J., 206, 122.

32. "Non-Circular Motions in the Perseus Spiral Arm," R.M. Humphreys, 1976, Ap.J., 206, 114.

31. "The Composite Nature of the F Supergiant CD-30 5135," R.M. Humphreys, 1975, Pub.A.S.P., 87, 933.

30. "On the Distance to Centaurus X-3," R.M. Humphreys and J. Whelan, 1975, Observatory, 95, 171.

29. "The Spectra of AE Andromedae and the Hubble-Sandage Variables in M31 and M33," R.M. Humphreys, 1975, Ap.J., 200, 426.

28. "Spectroscopic Observations of the Egg Nebula, CRL 2688," D. Crampton, A.P. Cowley and R.M. Humphreys, 1975, Ap.J. (Letters), 198, L135.

27. "On the Distances and Velocities of M Supergiants Associated with OH and H₂O Emission Sources," R.M. Humphreys, 1975, Pub.A.S.P., 87, 433.

26. "Spectroscopic and Photometric Observations of Luminous Stars in the Centaurus-Norma (= 305°-340°) Section of the Milky Way," R.M. Humphreys, 1975, A. & A. Suppl., 19, 243.
25. "Visual and Infrared Observations of Late-Type Supergiants in the Southern Sky," R.M. Humphreys and E.P. Ney, 1974, Ap.J., 194, 623.
24. "A Velocity Separation of Stars and Gas in Carina," R.M. Humphreys and F.J. Kerr, 1974, Ap.J., 194, 301.
23. "M Supergiants in the Large Magellanic cloud," R.M. Humphreys, 1974, Ap.J.
22. "IRC+60370 and the Infrared Radiation from Luminous G and K Supergiants," R.M. Humphreys and E.P. Ney, 1974, Pub.A.S.P., 86, 444.
21. "BM Scorpii and a Possible Cluster of Infrared Sources," E.P. Ney and R.M. Humphreys, 1974, Pub.A.S.P., 86, 304.
20. "Infrared Stars in Binary Systems," R.M. Humphreys and E.P. Ney, 1974, Ap.J., 190, 339.
19. "Supergiant Binary Stars," R.M. Humphreys and E.P. Ney 1974, Ap.J. (Letters), 187, L75.
18. "Infrared Observations of HD 65750, a Red Giant in a Reflection Nebula," R.M. Humphreys and E.P. Ney, 1974, A. & A., 30, 159.
17. "Veiling and the Presence of Circumstellar Gas and Dust in Some Infrared Stars," R.M. Humphreys, 1974, Ap.J., 188, 75.
16. "IRC+10420 - Another Carinae?" R.M. Humphreys, D.W. Strecker, T.L. Murdock and F.J. Low, 1973, Ap.J. (Letters), 179, L49.
15. "The Radial Velocities of SEG Stars and the Distance to Scorpius X-1," J.E. Felton and R.M. Humphreys, 1973, Ap.J., 181, 543.
14. "Spectroscopic and Photometric Observations of Luminous Stars in Carina-Centaurus (= 282°-305°)," R.M. Humphreys, 1973, A. & A. Suppl., 9, 85.
13. "Structure and Motions in the Carina Spiral Feature," R.M. Humphreys, 1972, A. & A., 20, 29.
12. "Spectroscopic and Photometric Changes in the Peculiar Infrared Star VX Sagittarius," R.M. Humphreys and G.W. Lockwood, 1972, Ap.J. (Letters), 172, L59.

11. "Spectroscopic and Photometric Observations of M Supergiants in Carina," R.M. Humphreys, D.W. Strecker and E.P. Ney, 1972, Ap.J., 172, 75.
10. "High Luminosity G Supergiants," R.M. Humphreys, D.W. Strecker and E.P. Ney, 1971, Ap.J. (Letters), 167, L35.
9. "Streaming Motions in the Carina-Centaurus Region," R.M. Humphreys, 1971, Ap.J. (Letters), 163, L111.
8. "New Ap Stars in NGC 3114," R.L. Frye, D.J. MacConnell, and R. M. Humphreys
7. "A Recent Spectrum of AG Carinae," R.M. Humphreys, 1970, Pub.A.S.P., 82, 1162.
6. "The Near-Infrared Spectrum of VY Canis Majoris," R.M. Humphreys, 1970,
5. "Supergiants in Associations and Clusters," R.M. Humphreys, 1970, Ap. (Letters), 6, L1.
4. "The Space Distribution and Kinematics of Supergiants," R.M. Humphreys, 1970, A.J., 75, 602.
3. "M Supergiants in the Perseus Arm," R.M. Humphreys, 1970, Ap.J., 160,1149.

Graduate School

2. "A New Composite Spectrum of the VV Cephei Type," R.M. Humphreys, 1969, Pub.A.S.P., 81, 440.
1. "Photoelectric Observations of 4 Canum Venaticorum," R.M. Humphreys, 1967, Pub.A.S.P., 79, 78.

Invited Review Papers and Invited Talks in Conference Proceedings

1. "M Supergiants and Galactic Structure," R.M. Humphreys, 1971, Conference on Late-Type Stars, Kitt Peak Contribution No. 554, p. 41.
2. "The HR Diagram for Luminous Stars in Nearby Galaxies," R.M. Humphreys, 1978, IAU Symposium #80, p. 263.
3. "The Distribution of Young Stars, Clusters and Cepheids in the Milky Way and M33 – A Comparison," R.M. Humphreys, 1979, in The Large-Scale Characteristics of the Galaxy, IAU Symposium #84, p. 93.
4. "Isophotometry and Densitometry on the Automated Plate Scanner," R. Landau and

- R.M. Humphreys, 1981, in Image Analysis, Techniques and Applications, Society of Photographic Scientists and Engineers Technical Digest, eds. P.N. Slater and R.S. Wagner, p. 39.
5. "The Observed Upper Limit to Stellar Luminosities in Galaxies," R.M. Humphreys, 1982, in The Most Massive Stars, ESO Workshop, p. 5.
 6. "Massive Star Evolution in Nearby Galaxies," R.M. Humphreys, 1984, in Observational Tests of the Stellar Evolution Theory, IAU Symposium #105, p. 279.
 7. "The Brightest Stars in the Magellanic Clouds and Other Nearby Galaxies," R.M. Humphreys 1984, in The Structure and Evolution of the Magellanic Clouds, IAU Symposium #108, p. 145.
 8. "Spectral Classification of Individual Stars in Nearby Galaxies," R.M. Humphreys, 1985, in MK Spectral Classification: Criteria and Applications, p. 374.
 9. "The Cooler Supergiants (A to M): Crucial Signposts in the Lifecycles of Massive Stars," R.M. Humphreys, 1986, in Luminous Stars and Associations in Galaxies, IAU Symposium #116, p. 45.
 10. "The Upper HR Diagram - An Observational Overview," R.M. Humphreys, 1986, in Instabilities in Luminous Stars, p. 3.
 11. "The Brightest Stars in Galaxies," R.M. Humphreys, 1988, in Symposium on the Extragalactic Distance Scale, ASP Conference Series 4, p. 103.
 12. "What is an LBV? - Their Characteristics and Evolutionary State," R.M. Humphreys, 1989, in The Physics of Luminous Blue Variables, IAU Colloquium #113, p. 3.
 13. "Luminous Cool Stars in the Upper HR Diagram or 'Stars Near the Edge of Existence', R.M. Humphreys, 1990, in Cool Stars, Stellar Systems and the Sun, ASP Conference Series 9, p. 387.
 14. "The Wolf-Rayet Connection-Luminous Blue Variables and Evolved Super-giants," R.M. Humphreys, 1990, in Wolf-Rayet Stars and Their Relationship to Other Massive Stars, IAU Symposium #143, ed. K. van der Hucht and B. Hedayat, p. 485.
 15. "Massive Red Stars in Galaxies," R.M. Humphreys, 1991, in STScI Workshop on Massive Stars in Starburst Galaxies, (Cambridge University Press: Cambridge), p. 45.
 16. "The Cool Hypergiants (A to M): Their Physical Characteristics and Role in Explaining the Upper Luminosity Limit in the HR Diagram," 1992, in Instabilities in

Evolved Super- and Hypergiant Stars, ed. C. deJager et al., p. 13.

17. "The Automated Plate Scanner Catalog of the Palomar Sky Survey," R.L. Pennington, R.M. Humphreys, S. Odewahn, W.A. Zumach and E.B. Stockwell, 1992, in *Digitized Optical Sky Surveys*, eds. H.T. MacGillivray and E.B. Thronson (Kluwer Academic Publ.), p. 77.
18. "The Most Luminous Stars - Ejections, Eruptions and Explosions," R.M. Humphreys, 1993, in *Massive Stars: Their Lives and the Interstellar Medium*, eds. J.P. Cassinelli and E.B. Churchwell, ASP Conference Series 35, p. 179.
19. *Catalogs and Databases from Photographic and CCD Sky Surveys and Their Application to Galactic Structure*, R.M. Humphreys, 1994, in *Databases for Galactic Structure*, eds. A.G. Davis Philip, Bernard Hauck and A.R. Uppgren (L. Davis Press), p. 87.
20. "Some High Class (or High Mass) Neighborhoods," in *Star Formation Near and Far*, R.M. Humphreys, 1997, AIP Conf. Proc. #393, p. 409.
21. "The Long Term Variability of Luminous Blue Variables," R.M. Humphreys, 1999, in *Variable and Non-Spherical Stellar Winds*, IAU Colloquium #169, eds. B. Wolf and A. Fullerton (Verlag), p. 293.
22. "Unusual Emission Lines in the Spectra of the Cool Hypergiants," R.M. Humphreys, 2001, in *Eta Carinae and Other Peculiar Stars*, eds. T.R. Gull and S. Johannson, ASP Conf. Series 242, p. 243.
23. "Mining Astronomical Databases," R.M. Humphreys, J.E. Cabanela, and J. Kriessler, 2002, in *Data Mining for Scientific and Engineering Applications*, eds. R. Grossman, C. Kamath, P. Kegelmeyer, V. Kumar and R. Namburu (Kluwer Academic Publ.).
24. "Eta Carinae - A Massive Star in its Death Throes", R. M. Humphreys, K. Davidson, and N. Smith, 2002 in IAU Colloquium 187, *Exotic Stars as Challenges to Evolution*, ASP Conf. Series, 279, 79 .
25. "Luminous Blue Variables, Cool Hypergiants and Some Impostors in the HR Diagram, R. M. Humphreys 2003, in IAU Symposium 212, *A Massive Star Odyssey*, I.A.U./ASP Conf. Series, 212, 38.
26. "η Carinae -- The Observational Story, 1600 to 2004", R. M. Humphreys, 2005, in *The Fate of the Most Massive Stars*", ASP. Conf. Series 332.
29. "SN1961v -- Supernova or Supernova Impostor?" R. M. Humphreys, 2005, in *The Fate of the Most Massive Stars*", ASP. Conf. Series 332.

- 30 "The Historical Spectra of η Car, 1892 – 1941", R. M. Humphreys & M. Koppleman, 2005 in "The Fate of the Most Massive Stars", A.S.P. Conf. Series 332.
- 31 "The Circumstellar Environments of the Cool Hypergiants: Implications for the Mass Loss Mechanism", 2006, in "Circumstellar Media and the Late Stages of Massive Stellar Evolution", 2007, *Revista Mexicana Astronomia y Astrofisica*, , 30, 6
- 32 "The Hypergiant Masers: Episodic Mass Loss, Convective Activity, and Magnetic Fields", 2007, IAU Symposium 242, *Astrophysical Masers and Their Environments*, Cambridge University Press, 2008, pg 251.
- 33 . "The Evolutionary State of the Cool Hypergiants – Episodic Mass Loss, Convective Activity and Magnetic Fields" 2007, IAU Symposium 250, *Massive Stars as Cosmic Engines*, Cambridge University Press, 2008, pg 111.
34. "Circumstellar Environments, Post--Red Supergiant Evolution, and Blue Loops", *Hot and Cool: Bridging Gaps in Massive Star Evolution*, Pasadena, November, 2008, published in ASP Conference Series , 425, 247, 2010
35. "Mapping the Asymmetric Thick Disk", at *The Milky Way and Local Group: Now and in the Gaia Era*, August 2009, Heidelberg, Germany, on-line publication
36. Symposium on Eta Carinae, Nagoya University, Nagoya, Japan, Jan. 2010
37. "Intermediate Luminosity Red Transients" , June 2011, STScI on-line publication
38. Red Supergiants and Post Red Supergiants -- the Evidence for High Mass Loss Events", *Betelgeuse Workshop*, Paris, France, Nov. 2012, published in *The Physics of Red Supergiants: Recent Advances and Open Questions*, EAS Publ. Ser., Vol. 60, 185
39. "Warm and Cool Hypergiants and their Circumstellar Environments" in *Wind Bubbles, Astrospheres and the Heliosphere: Environments and Cosmic Rays*, Bochum, Germany, Nov. 2013

Books Edited

1. *The Minnesota Lectures on the Structure and Dynamics of the Milky Way*, ed. R.M. Humphreys, 1993, ASP Conference Series #39.
2. *Proper Motions and Galactic Astronomy*, ed. R.M. Humphreys, 1997, ASP Conference Series #127.
3. *Eta Carinae at the Millenium*, ed. J. Morse, R.M. Humphreys and A. Daminelli,

- 1999, ASP Conference Series, #179.
4. The Fate of the Most Massive Stars, ed R. M. Humphreys and K. Stanek, 2005, ASP Conference Series, # 332.
 5. Eta Carinae and the Supernova Impostors, ed K. Davidson and R. M. Humphreys, 2012, Springer Publishing
 6. Luminous Stars in Nearby Galaxies, guest editor, 2020, MDPI, *Galaxies*, special issue.

Popular Articles

1. "The Automated Plate Scanner at the University of Minnesota," R.M. Humphreys and R. Landau, 1980, *Sky and Telescope*, 59, 16.
2. "Sizing Up the Superstars," R.M. Humphreys and K. Davidson, 1986, *New Scientist*, 1538, p. 38.
3. "High Luminosity Stars: OB Supergiants, Luminous Blue Variables, Eta Carinae, and R136a," R.M. Humphreys, 1989, in *Reference Encyclopedia of Astronomy and Astrophysics*.
4. "A Billion Stars and a Few Million Galaxies," R.M. Humphreys and P.M. Thurmes, 1994, *Sky and Telescope*, May 1994.

Graduate Students

M.S.

Nancy Oliverson, 1978, Support Scientist IUE/NASA
Andrew Phillips, 1983, Support Scientist CTIO; now post-doctoral associate at Lick Obs.
Cindy Blaha, 1983, Professor, Carleton College
Carol Helper, 1987, Assistant Professor, University of Wisconsin, Oshkosh
Jennifer Parker, 1998
Justin Morgan, 2000
Chelsea Tiffany, 2010

Ph.D.

Cindy Blaha, 1989, Professor, Carleton College
Claia Bryja, 1994, Assistant Professor, Southwest Missouri State University

Adjunct Professor, City College of San Francisco
Jeff Larsen, 1996, Research Scientist, Spacewatch Project, University of Arizona
Associate Professor, U.S. Naval Academy, Annapolis
Professor, US. Naval Academy, Annapolis
Juan Cabanela, 1999, Assistant Professor, St. Cloud State University
Associate Professor, Moorhead State University
Professor, Moorhead State University
Jennifer Parker, 2003, Scientist, Lincoln Laboratories, M.I.T.
Ed Rhoads, 2005, Lecturer, IUPUI
Michael Schuster, 2007, Smithsonian Research Fellow,
Scientist Lincoln Laboratories , MIT
Skyler Grammer, 2014, data analyst
Michael S. Gordon, 2018, Support Scientist, SOFIA,
Staff Scientist, Ball Aerospace, (JWST support team)

Post-Doctoral Research Associates

Dr. Robert Landau, 1979-85
Dr. Frank Ghigo, 1980-88
Dr. Doug McElroy, 1981-83
Dr. Michael Sitko, 1983-84
Dr. Robert Pennington, 1984-92
Dr. Franz-Josef Zickgraf, 1989-91 [Feodor Lynen Fellow, Humboldt Foundation (FRG)]
Dr. Steven Odewahn, 1989-95
Dr. Greg Aldering, 1992-97
Dr. Chris Cornuelle, 1993-97
Dr. Jeff Kriessler, 1997-1999
Dr. Richard Rees, 1997-98
Dr. Kerstin Weis, 2001-03 (Feodor Lynen Fellow, Humboldt Foundation, FRG)