

Curriculum Vitae: Nancy D. Morrison

December 11, 2002

Education and Training

Ph. D., 1975, University of Hawaii

M. S., 1971, University of Hawaii

B. A. *cum laude*, 1967, Radcliffe College

Appointments and Experience

The University of Toledo: Assistant Professor of Astronomy, 1978 to 1983; tenure awarded 1984; Director, Ritter Observatory, 1997 to present

University of Colorado, Boulder: Postdoctoral Research Associate, Joint Institute for Laboratory Astrophysics, 1975 to 1978

Research Interests and Experience

Stellar spectroscopy: binary orbits, early-type stars, supergiant stars, line-profile variability, variability in stellar winds and circumstellar disks; time-series analysis

Research Grants, Last Five Years

1. Fund for Astrophysical Research, Inc., 1997, \$2,004
2. American Astronomical Society Small Research Grants Program, "A Long-Term Data Archive for Ritter Observatory," December 1997, \$2,000
3. N. D. Morrison, "Monitoring of Luminous Blue Variable Stars," Fund for Astrophysical Research, Inc., December 2001–December 2003, \$2,160
4. N. D. Morrison, J. P. Aufdenberg, et al., "The Stellar Wind of Deneb (Alpha Cygni, A2 Ia)" NASA, *Far Ultraviolet Spectroscopic Explorer* Cycle 3, August 2002–August 2003, \$27,300
5. N. D. Morrison and A. T. Mak, "Hands-On Astronomy for Teachers," NASA Education/Public Outreach, August 2002–August 2003, \$14,400

Refereed Publications, Last Five Years

1. N. D. Morrison, D. C. Knauth, C. L. Mulliss, and W. Lee, "High-Resolution Optical Spectra of the Head of Comet C/1996 B2 (Hyakutake)," *P. A. S. P.*, **109**, 676–681, 1997
2. A. S. Miroshnichenko, C. L. Mulliss, K. S. Bjorkman, N. D. Morrison, Yu. V. Glagolevskij, and G. A. Chountonov, "High State of H α Emission Activity of the Herbig Be Star HD 200775," *P. A. S. P.*, **110**, 883–887, 1998
3. A. S. Miroshnichenko, C. L. Mulliss, K. S. Bjorkman, N. D. Morrison, K. S. Kuratov, and J. P. Wisniewski, "Six Intermediate-Mass Stars with Far-Infrared Excess: A Search for Evolutionary Connections," *M. N. R. A. S.*, **302**, 612–624, 1999

4. S. Marchenko, G. Rauw, E. Antokhina, I. Antokhin, D. Ballereau, J. Chauville, M. Corcoran, R. Costero, J. Echevarria, T. Eversberg, K. Gayley, G. Koenigsberger, A. Miroshnichenko, N. Morrell, A. Moffat, N. Morrison, C. Mulliss, J. Pittard, I. R. Stevens, J.-M. Vreux, and J. Zorec, “Coordinated Monitoring of the Eccentric O-star Binary Iota Orionis. II. Optical Spectroscopy and Photometry,” *M. N. R. A. S.*, **317**, 333–342, 2000
5. M. A. Pogodin, A. S. Miroshnichenko, K. S. Bjorkman, N. D. Morrison, and C. L. Mulliss, “Spectroscopic Behaviour of the Herbig Be Star HD 200775 Around Its Maximum Activity in 1997,” *Astr. Ap.*, **359**, 299–305, 2000
6. G. Rauw, N. D. Morrison, J.-M. Vreux, E. Gosset, and C. L. Mulliss, “The Spectral Variability of HD 192639 and Its Implications for the Star’s Stellar Wind Structure,” *Astr. Ap.*, **366**, 585–597, 2000
7. J. A. de Jong, H. F. Henrichs, L. Kaper, J. S. Nichols, K. Bjorkman, D. A. Bohlender, H. Cao, K. Gordon, G. Hill, Y. Jiang, I. Kolka, N. Morrison, J. Neff, D. O’Neal, B. Scheers, and J. H. Telting, “A Search for the Cause of Cyclical Wind Variability in O Stars,” *Astr. Ap.*, **368**, 601–621, 2001
8. W. J. Fischer and N. D. Morrison, “Spectrum Variability of the A-Type Supergiant Star HD 223960,” *P. A. S. P.*, **113**, 821–828, 2001
9. N. Markova, N. D. Morrison, I. Kolka, and H. Markov, “P Cygni in a Short S Dor Phase. Spectroscopic and Photometric Evidences,” *Astr. Ap.*, **376**, 898–905, 2001
10. A. S. Miroshnichenko, J. Fabregat, K. S. Bjorkman, D. C. Knauth, N. D. Morrison, A. E. Tarasov, P. Reig, I. Negueruela, and P. Blay, “Spectroscopic Observations of the δ Scorpii Binary During Its Recent Periastron Passage,” *Astr. Ap.*, **377**, 485–495, 2001
11. A. Lobel, A. K. Dupree, R. P. Stefanik, G. Torres, G. Israelian, N. Morrison, C. de Jager, H. Nieuwenhuijzen, I. Ilyin, and F. Musaev, “High-Resolution Spectroscopy of the Yellow Hypergiant ρ Cassiopeiae from 1993 Through the Outburst of 2000-2001,” *Ap. J.*, in press, 2003

Courses Taught

Introductory astronomy, descriptive: 1-quarter, 1-semester, 2-quarter, 2-semester sequences
 Introductory astronomy of the solar system, quantitative
 Introductory mechanics, trigonometry-based
 Introductory mechanics, calculus-based (recitation section)
 Frontiers of Astronomy (descriptive, follows introductory course)
 Introductory astronomy laboratory
 Introductory astrophysics (senior/beginning graduate)
 Advanced astronomy laboratory
 Astronomical Techniques (graduate)
 Stellar Spectroscopy (graduate)
 Galactic Astronomy (graduate)
 Stellar Atmospheres I (graduate)

National Service, Last Five Years

V. M. Slipher Committee on Public Education in Astronomy 1979–present