

CURRICULUM VITAE
Donald G. Luttermoser

Personal:

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Education:

Ph.D.	Indiana University, Bloomington	(Astrophysics)	August 1988
M.A.	Indiana University, Bloomington	(Astronomy)	December 1985
M.A.	Wayne State University, Detroit	(Physics)	August 1983
B.S.	University of Michigan, Ann Arbor	(Astronomy & Physics)	May 1981

Dissertation:

Title: The Chromospheric Structure of Cool Carbon Stars

Advisor: Dr. Hollis R. Johnson, Astronomy Department, Indiana University

Employment:

2006– Department Chair & Associate Professor, East Tennessee State University
1999–2006 Associate Professor, East Tennessee State University
1996–1999 Assistant Professor, East Tennessee State University
1994–1996 Associate Scientist, Applied Research Corporation
1993–1994 IUE Resident Astronomer, NASA/GSFC, Computer Sciences Corporation
1990–1993 Visiting Assistant Professor, Iowa State University
1988–1990 Postdoctoral Research Associate, Joint Institute for Laboratory Astrophysics

Grants Relating to Research:

2010 Co-Principal Investigator on NSF/ARI Grant: *Renovation of Research Facilities in Brown Hall*, (Principal investigator: Gordon K. Anderson, ETSU)

2009 Co-investigator on NSF/AST Grant: *Galaxy Wars: Stellar Populations and Star Formation in Interacting Galaxies*, (Principal investigator: Beverly J. Smith, ETSU)

2008 Co-investigator on NASA/Spitzer Cycle 5 program: *An Interferometric Snapshot Survey to Constrain Mass-Loss Dynamics and Physics in AGB Stars* (2 year, \$21,443 [ETSU portion], Principal investigator: Michelle Creech-Eakman, New Mexico Tech, +1 yr no-cost extension)

2007 Principal investigator of NSF/AST Grant (AST-0721663): *A Workshop on The Biggest, Baddest, Coolest Stars* (1 year, \$12,730)

2001 Principal investigator of NASA/FUSE Cycle 2 Guest Observing program (B084): *The Outer Atmosphere of Mira Variables* (1 year, 10 ksec, \$25,500)

1999 Principal investigator of ETSU/Research Development Committee grant (RDC #00-011/m): *The Atmospheres of Cool Variable Stars* (1 year, \$5,930)

1998 Principal investigator of NASA/HST Cycle 7 program (GO-07756.01-97A): *Density Diagnostics for Dynamic LPV Stellar Atmospheres* (4 orbits, carry over from Cycle 6)

1996 Principal investigator of NASA/HST Cycle 6 program (GO-06620.01-95A): *Density Diagnostics for Dynamic LPV Stellar Atmospheres* (1 year, 12 orbits, \$38,974)

Grants Relating to Research (continued):

- 1994 Principal investigator of NASA/ADP program (contract NAS 5-32863): *The Chromosphere/ Shock Dilemma of Non-Mira, Late-Type Variable Stars* (3 years, \$120,000)
- 1994 Co-investigator on NASA/HST Cycle 4 program 5359: *Spectra and Chromospheres of Carbon and M Stars — Cycle 4* (Principal investigator: Hollis R. Johnson, Indiana Univ.)
- 1994 Principal investigator of NASA/IUE program VHRDL: *The UV Emission of V Hya: Normal Mira Star or Enveloped Companion?* (1 year, no money awarded)
- 1993 Principal investigator of NASA/IUE program MIPDL (grant NAG 5-707): *Fluorescent Clues to the Atmospheric Shock Structure of Cool, Variable Stars: Part 4* (1 year, \$2,000)
- 1993 Co-investigator on NASA/HST Cycle 3 program 4685: *Spectra and Chromospheres of Carbon and M Stars — Cycle 3* (Principal investigator: Hollis R. Johnson, Indiana Univ.)
- 1993 Co-investigator on NASA/HST Cycle 3 program 4611: *Dynamics, Mass Loss and Radiative Transfer in Shocked Atmospheres* (Principal investigator: Jay A. Bookbinder, Harvard Univ.)
- 1992 Principal investigator of NASA/IUE program CVODL (grant NAG 5-1777): *Fluorescent Clues to the Atmospheric Shock Structure of Cool, Variable Stars: Part 3* (1 year, \$23,000)
- 1992 Co-investigator of NASA/IUE program FEOJB : *Fe Line Diagnostics of Multiply Shocked Stellar Atmospheres* (Principal investigator: Jay A. Bookbinder, Harvard Univ.)
- 1991 Principal investigator of NASA/IUE program LGNDL (grant NAG 5-1777): *Fluorescent Clues to the Atmospheric Shock Structure of Cool, Variable Stars: Part 2* (1 year, \$18,000)
- 1991 Co-investigator of NASA/IUE program LGNPJ: *Chromospheric Structure of the Cool Carbon Star TX Psc* (Principal investigator: Philip G. Judge, Univ. of Colorado)
- 1990 Principal investigator of NASA/IUE program LGMDL (grant NAG 5-707): *Fluorescent Clues to the Atmospheric Shock Structure of Cool, Variable Stars* (1 year, \$17,000)
- 1990 Principal investigator on NASA/ROSAT program (grant NAG 5-1655): *The Formation Process of the He I λ 10830 Line in Cool Giant Stars* (1 year, \$15,000)
- 1989 Principal investigator on NASA/ADP program (grant NAG 5-1305): *Radiative Transfer in the Dynamic Atmospheres of Mira-type Variables* (2 years, \$84,000)
- 1989 Co-investigator on NASA/IUE program MSLHJ: *Ultraviolet Spectra and Chromospheres of S and MS Stars* (Principal investigator: Hollis R. Johnson, Indiana Univ.)
- 1989 Co-investigator on NASA/IUE program RVLEB: *Miras and RV Tauri Stars: Critical Case Studies of the Development of Shock Waves and Pulsation-Related Mass Loss* (Principal investigator: Edward W. Brugel, Univ. of Colorado)
- 1989 Co-investigator of NASA/IUE program SRLPJ: *Cycle-Dependent Studies of SemiRegular Giant Stars* (Principal investigator: Philip G. Judge, Univ. of Colorado)
- 1988 Co-investigator on NASA/IUE program CSKHJ: *The Upper Atmospheres of Late M Stars* (Principal investigator: Hollis R. Johnson, Indiana Univ.)

Grants Relating to Instruction:

- 2010 Co-investigator on NASA Tennessee Space Grant Supplemental Funding Proposal: *Student Attraction and Retention in Physics and Astronomy (SARPA) Scholarships*, (Principal investigator: Beverly J. Smith)
- 1998 Principal investigator of ETSU/Instructional Development Committee Grant (account: 2-19678, \$4,900): *Software Development for New Laboratories in Introductory Astronomy*

Teaching Experience:

Asst./Assoc. Professor: August 1996 – present, East Tennessee State University

Courses: ASTR-1010: Astronomy I; ASTR-1020: Astronomy II; ASTR-3415: Astrophysics; PHYS-1030: Introduction to Physics Survey; PHYS-1956: The Physics of Science Fiction Films; PHYS-2010: General Physics I; PHYS-2011: General Physics Laboratory I; PHYS-2018: Great Ideas in Science I; PHYS-2020: General Physics II; PHYS-2021: General Physics Laboratory II; PHYS-2028: Great Ideas in Science II; PHYS-4007/5007: Computational Physics; PHYS-4617/5617: Quantum Physics

Visiting Assistant Professor: August 1990 – August 1993, Iowa State University

Courses: Astronomy 120: Introductory Astronomy, The Sky and Solar System; Astronomy 575: Radiative Transfer, Stellar Atmospheres, and Spectroscopy (Graduate-level course); Physics 221: Classical Physics I

Associate Instructor: September 1983 – August 1988, Indiana University

Courses: Astronomy Q204, A105, A110, A201, and A202.

Duties: Grading, writing exams and homework assignments. I was solely responsible for teaching A105 in summer sessions; A110 in the Fall 1986 and Fall 1987 sessions; and A202 in the Spring 1988 session.

Gifted and Talented Youth Program: June – July 1987 & 1988, Indiana University

Duties: Lecturing on introductory astronomy to 5th and 6th grade students.

Teaching Assistantship: September 1981 – May 1982, Wayne State University

Course: Astronomy 201 Laboratory

Duties: Teaching the undergraduate astronomy laboratories.

Ground-based Observing Grants:

- 1997 Kitt Peak National Observatory, Kitt Peak, Arizona: *A Comprehensive Library of Near-IR Stellar Spectra II*, (Telescope: Coudé Feed/NICMASS Detector)
- 1996 Kitt Peak National Observatory, Kitt Peak, Arizona: *A Comprehensive Library of Near-IR Stellar Spectra*, (Telescope: Coudé Feed/NICMASS Detector)
- 1994 National Solar Observatory, Kitt Peak, Arizona: Program #1545 (cont.), *Fluorescent Clues to the Shock Structure of Late-type Stars*, (Telescope: McMath-Pierce Telescope)
- 1993 National Solar Observatory, Kitt Peak, Arizona: Program #1545 (cont.), *Fluorescent Clues to the Shock Structure of Late-type Stars*, (Telescope: McMath-Pierce Telescope)
- 1992 National Solar Observatory, Kitt Peak, Arizona: Program #1545 (cont.), *Fluorescent Clues to the Shock Structure of Late-type Stars*, (Telescope: McMath-Pierce Telescope)
- 1991 National Solar Observatory, Kitt Peak, Arizona: Program #1545 (cont.), *Fluorescent Clues to the Shock Structure of Late-type Stars*, (Telescope: McMath-Pierce Telescope)
- 1991 National Solar Observatory, Kitt Peak, Arizona: Program #1544 (cont.), *The Violet Opacity of Carbon Stars*, (Telescope: McMath-Pierce Telescope)
- 1991 National Radio Astronomical Observatory, Socorro, New Mexico: Program #AS457, *Carbon Star V Hydrae*, (Telescope: Very Large Array, Principal Investigator: R. Sahai)
- 1990 National Solar Observatory, Kitt Peak, Arizona: Program #1545, *Fluorescent Clues to the Shock Structure of Late-type Stars*, (Telescope: McMath-Pierce Telescope)

Ground-based Observing Grants (continued):

- 1990 National Solar Observatory, Kitt Peak, Arizona: Program #1544, *The Violet Opacity of Carbon Stars*, (Telescope: McMath-Pierce Telescope)
- 1990 National Solar Observatory, Kitt Peak, Arizona: Program #1496, *Chromospheric Variability through Fluorescence in Late-type Stars*, (Telescope: McMath-Pierce Telescope)
- 1989 National Solar Observatory, Kitt Peak, Arizona: Program #1451, *Chromospheric Spectral Features and the Circumstellar Environment of N-type and late M-type Giant Stars*, (Telescope: McMath-Pierce Telescope)
- 1989 National Solar Observatory, Kitt Peak, Arizona: Program #1421, *Visual and Near-IR Chromospheric Indicators of Cool Carbon Stars*, (Telescope: McMath-Pierce Telescope)
- 1989 National Radio Astronomical Observatory, Socorro, New Mexico: Program #AL191, *A Radio Continuum Survey of Cool N-type Carbon Stars*, (Telescope: Very Large Array)

Affiliations:

The American Astronomical Society (AAS)
The Solar Physics Division of the AAS

Computer Experience:

Unix: Twenty-eight years experience on DECstations, SUNs, AlphaStations, and SGIs. System Manager for AlphaStation, SUN SparcStation, Linux workstations for seventeen years

VAX/VMS: System Manager of VAXstation 3100 for eight years, nine additional years experience on various mainframes

Fortran 77/90: Thirty-four years experience; have operated large radiative transfer codes: PANDORA & ATLAS; some experience with MULTI, TLUSTY, & CLOUDY

C: Twenty-three years experience on both mainframes and PCs

IDL: Twenty-three years experience — presently used in all of my data analysis and graphic packages

DI-3000: Three years experience — graphics package used during my graduate career

IRAF & AIPS: Some experience (approximately three years)

TCP/IP: Some experience (approximately twenty years)

PC & Mac: Twenty-eight years experience.

Honors, Awards, and Service:

- 2011
 - Contributor to the monthly Night Sky articles in the Johnson City Press newspaper.
 - Member of the OIT Networking and Telecommunication Subcommittee for ETSU.
 - Installed new audio system in the ETSU Planetarium.
- 2010
 - Organizer of and contributor to the monthly Night Sky articles in the Johnson City Press newspaper.
 - Member of the OIT Networking and Telecommunication Subcommittee for ETSU.
- 2009
 - Lead-editor of Scientific Conference Proceedings: *The Biggest, Baddest, Coolest Stars*.
 - Member of the OIT Networking and Telecommunication Subcommittee for ETSU.
- 2008
 - Scientific Journal Referee — *Astronomical Journal*: 1
 - Textbook Reviewer — *Astrophysics*: 1 book.
 - Member of the OIT Networking and Telecommunication Subcommittee for ETSU.
- 2007
 - Chair of Scientific and Local Organizing Committees for *The Biggest, Baddest, Coolest Stars* Conference, Johnson City, TN.
 - Scientific Journal Referee — *Astronomical Journal*: 1
 - NASA Postdoctoral Program at Oak Ridge Associated Universities Proposal Reviewer.
 - Member of the OIT Networking and Telecommunication Subcommittee for ETSU.
 - Textbook Reviewer — *College Physics*: 3 books, *Astrophysics*: 1 book.
- 2006
 - **Chair** of the Department of Physics, Astronomy & Geology at ETSU.
 - Member of the OIT Networking and Telecommunication Subcommittee for ETSU.
 - Member of the College of Arts and Sciences NIA Committee.
 - Textbook Reviewer — *College Physics*: 1 book.
 - Instit. of Geophys. and Planetary Physics at Los Alamos Research Proposal Referee.
 - Awarded a new TAF computer cluster for the campus observatory.
- 2005
 - Member of the Research Development Committee (RDC) for ETSU.
 - Member of the Small Grants Committee of the RDC) for ETSU.
 - Member of the OIT Networking and Telecommunication Subcommittee for ETSU.
 - NASA/FUSE Review Panel (Cycle 7) — Cool Stars Panel.
 - Scientific Journal Referee — *Astrophysical Journal*: 1 papers.
 - Textbook Reviewer — 3 books: *Computational Physics*, *College Physics*, *Astrophysics*.
- 2004
 - Member of the Research Development Committee (RDC) for ETSU.
 - Member of the Small Grants Committee of the RDC for ETSU.
 - Member of the OIT Networking and Telecommunication Subcommittee for ETSU.
 - Textbook Reviewer — *College Physics*: 2 books
- 2003
 - Member of the Research Development Committee (RDC) for ETSU.
 - Member of the Small Grants Committee of the RDC for ETSU.
 - Member of the OIT Networking and Telecommunication Subcommittee for ETSU.
 - Department Co-Coordinator of multi-media refurbishment of Brown Hall physics classrooms.
 - Textbook Reviewer — *College Physics*: 2 books, *Astrophysics*: 1 book
- 2002
 - **Chair** of the Tenure and Promotion Committee for ETSU College of Arts & Sciences.
- 2001
 - Member of the Tenure and Promotion Committee for ETSU College of Arts & Sciences.
 - NASA/FUSE Review Panel (Cycle 3) — Cool Stars Panel.
 - Scientific Journal Referee — *Astrophysical Journal*: 2 papers, *Publications of the Astronomical Society of Australia*: 2 papers, *Nature*: 2 papers.
- 2000
 - Textbook Reviewer — 1 general physics text.

Honors, Awards, and Service (continued):

- 1999
 - **Chair** of the ETSU College of Arts & Sciences Faculty Council.
 - Scientific Journal Referee — *Astrophysical Journal*: 1 paper.
 - Textbook Reviewer — 1 general physics text & 1 introductory astronomy text.
 - NSF Astronomy & Astrophysics Division Proposal Review Panel.
- 1998
 - Member of the ETSU College of Arts & Sciences Faculty Council.
 - Jewel Friend Lectureship (\$100 award): *Stellar Evolution and Its Impact on Biological Evolution* (see www.etsu.edu/physics/lutter/jewelfr/jewfr.htm).
- 1997
 - NASA/EUVE Review Panel (Cycle 6) — Panel 3: Cool Stars.
 - Scientific Journal Referee — *Astrophysics & Space Sciences*: 1 paper.
- 1995
 - NASA/EUVE Review Panel (Cycle 4) — Panel 2: White Dwarfs.
 - NASA/HST Telescope Allocation Committee (Cycle 6) — Cool Stars Panel.
 - Scientific Journal Referee — *Astrophysical Journal*: 1 paper; *Astronomy & Astrophysics*: 2 papers.
- 1994
 - NASA/EUVE Review Panel (Cycle 3) — Panel 2: White Dwarfs.
 - International Science Foundation Reviewer: Proposal 53784-AST.
 - Scientific Journal Referee — *Astrophysical Journal*: 4 papers; Book entitled *Cosmic Winds and the Heliosphere*: 1 chapter.
- 1993
 - Scientific Journal Referee — *Astrophysical Journal*: 1 paper.
 - NASA/IUE Review Panel — Panel B1: Cool Stars.
- 1992
 - NASA/EUVE Review Panel (Cycle 1) — Panel 3: White Dwarfs.
 - NASA/IUE Review Panel — Panel B1: Cool Stars.
- 1991
 - Scientific Journal Referee — *Astrophysical Journal*: 1 paper.
- 1987
 - Swain Fellowship, Indiana University.
 - NASA Graduate Travel Award for the Fifth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun.
 - Indiana University Associate Instructor Teaching Award Nomination.
- 1985
 - Studentship Award — Solar Physics Division (AAS).

Graduate Research Experience:

Research Assistantship: January – May 1987, Indiana University

Topics: Development of an LTE synthetic spectrum computer code and installation of the non-LTE stellar atmospheres PANDORA on the Indiana University computer system.

Advisor: Dr. Hollis R. Johnson, Astronomy Department, Indiana University

Summer Research Assistantship; National Solar Observatory — National Aeronautics and Space Administration: May – July 1984, Kitt Peak, Arizona

Topic: White light photometry of the solar disk with the 60cm NSO/Tucson Vacuum Telescope.

Advisor: Dr. Harrison P. Jones, Laboratory for Space and Astronomical Sciences, NASA/Goddard Space Flight Center

Research Assistantship: September 1982 – August 1983, Wayne State University

Topic: Laser spectroscopy of the ultraviolet transitions of the OH radical.

Advisors: Dr. Donovan Bakalyar, Physics Department, Wayne State University
Dr. Charles C. Wang, Scientific Research Lab., Ford Motor Company

Student Theses Committees, External Thesis Observer (ETO), and Research Advising:

Fall 2009	Ms. Sabrina Hurlock East Tenn. State Univ.	Senior Honors Thesis: <i>A SoHO Analysis of Coronal Mass Ejections</i> (Astronomy) [Committee Chair]
Spring 2008	Mr. Tommy Byrd East Tenn. State Univ.	Independent Study: <i>GUI Driver Software for ATLAS</i> , (Astronomy)
Spring 2006	Mr. Changbin Guo East Tenn. State Univ.	M.S. Thesis: <i>Bayesian Reference Inference on the Ratio on the Ratio of Poisson Rates</i> (Mathemmnatics – ETO)
	Mr. Dandan Chen East Tenn. State Univ.	M.S. Thesis: <i>Amended Estimators of Several Ratios for Categorical Data</i> (Mathemmnatics – ETO)
Spring 2004	Ms. Jennifer Salyer East Tenn. State Univ.	Honors Thesis Committee: <i>Pade Approximation in the Numerical Solution to Solids Deformation</i> (Mathematics)
	Mr. Alain Talla Souop East Tenn. State Univ.	M.S. Thesis: <i>Using the EM Algorithm to Estimate the Difference in Dependent Proportions in a 2x2 Table with Missing Data</i> (Mathemmnatics – ETO)
Fall 2003	Ms. Twyla Smith East Tenn. State Univ.	Honors Thesis Chair: <i>Fluorescent Clues to the Atmopsheric Structure of AGB Stars</i> (Astronomy)
	Ms. Jennifer Salyer East Tenn. State Univ.	Honors Thesis Committee: <i>Societal Influence on Issac Asimov's Robot Works</i> (English)
Summer 2003	Ms. Twyla Smith East Tenn. State Univ.	SARA/REU Summer Student: <i>Fluorescent Clues to the Atmopsheric Structure of AGB Stars</i> (Astronomy)
Fall 2001	Ms. Rachel Dunn East Tenn. State Univ.	Independent Study: <i>Stellar Evolution of Massive Stars from Birth to Black Holes</i> , (Astronomy)
Spring 2000	Mr. Scott Lavoie East Tenn. State Univ.	Independent Study: <i>Planetary Atmosphere Evolution</i> , (Astronomy)
Spring 2000	Mr. Jason Osborne East Tenn. State Univ.	Independent Study: <i>Techniques to Numerically Solve Differential Equations</i> , (Math/Astronomy)
Fall 1999	Mr. Brian Heaton East Tenn. State Univ.	M.A. Thesis: <i>The Einstein-Pedosky-Rosen Paradox in Relation to Bell's Theorem</i> , (Math/Quantum Mechanics)
Spring 1999	Ms. Leslie Rollins East Tenn. State Univ.	M.A. Thesis: <i>Southern Exposure: The Southern Black Press and the Italo-Ethiopian War</i> , (History – ETO)
Summer 1998	Mr. Robert Piontek Univ. of Michigan- Dearborn (at ETSU)	SARA/REU Summer Student: <i>Effective Temperature and Surface Gravity of Mira Variables as a Function of Phase</i> (Astronomy)
Fall 1997	Mr. William Galliher East Tenn. State Univ.	M.A. Thesis: <i>On the Oscillation of Solutions of the Lienard Equation</i> , (Math/Differential Eqns. – ETO)
Summer 1997	Ms. Susan Mahar East Tenn. State Univ.	HST grant RA: <i>The UV Spectra of Mira Variables: A View with HST</i>
Year 1992/93	Mr. Ralph Haefner Iowa State Univ.	M.S. Thesis: <i>NLTE Synthetic Spectra of Cepheid Variables</i> , (Physics/Astrophysics)
Year 1991/93	Mr. Ben Dehner Iowa State Univ.	M.S. Thesis: <i>NLTE Synthetic Spectra of White Dwarf Stars</i> , (Physics/Astrophysics)

References:

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University of Denver
2112 E. Wesley Ave.
Denver, CO 80208
303-871-2135
303-871-4405 (FAX)
rstencel@du.edu

Publications of Donald G. Luttermoser

Refereed Publications:

- Ignace, R., Giroux, M.L., & Luttermoser, D.G. 2010, *Thermal Radio Emission from Substellar Companions of Evolved Cool Stars*, Monthly Notices of the Royal Astronomical Society, **402**, 2609.
- Smith, B.J., Leisawitz, D., Castelaz, M.W., & Luttermoser, D.G. 2002, *Infrared Light Curves of Mira Variable Stars from COBE/DIRBE Data*, Astronomical Journal, **123**, 948.
- Castelaz, M.W., Luttermoser, D.G., Caton, D.B., & Piontek, R.A. 2000, *Phase Dependent Spectroscopy of Mira Variable Stars*, Astronomical Journal, **120**, 2627.
- Castelaz, M.W., Luttermoser, D.G., & Piontek, R.A. 2000, *Vanadium Oxide in the Spectra of Mira Variables*, Astrophysical Journal, **538**, 341.
- Luttermoser, D.G. 2000, *The Atmosphere of Mira Variables: A View with the Hubble Space Telescope*, Astrophysical Journal, **536**, 923.
- Castelaz, M.W. & Luttermoser, D.G. 1997, *Spectroscopy of Mira Variables at Different Phases*, Astronomical Journal, **114**, 1584.
- Johnson, H.R., Ensmann, L.M., Alexander, D.R., Avrett, E.H., Brown, A., Carpenter, K.G., Eriksson, K., Gustafsson, B., Jørgensen, U.G., Judge, P.G., Linsky, J.L., Luttermoser, D.G., Querci, F., Querci, M., Robinson, R.D., & Wing, R.F. 1995, *Outer Layers of a Carbon Star: The View from the Hubble Space Telescope*, Astrophysical Journal, **443**, 281.
- Luttermoser, D.G., Johnson, H.R., & Eaton, J.A. 1994, *The Chromospheric Structure of the Cool Giant Star γ Herculis*, Astrophysical Journal, **422**, 351.
- Judge, P.G., Luttermoser, D.G., Neff, D.H., Cuntz, M., Stencel, R.E. 1993, *Line Profile Variations in M Giants: Clues to Mass Loss and Chromospheric Heating Mechanisms*, Astronomical Journal, **105**, 1973.
- Luttermoser, D.G. & Johnson, H.R. 1992, *Ionization and Excitation in Cool Giant Stars: I. Hydrogen and Helium*, Astrophysical Journal, **388**, 579.
- Luttermoser, D.G. & Brown, A. 1992, *A VLA 3.6 cm Survey of N-type Carbon Stars*, Astrophysical Journal, **384**, 634.
- Cuntz, M. & Luttermoser, D.G. 1990, *Stochastic Waves as a Candidate Mechanism for the Formation of the He I $\lambda 10830$ Line in Cool Giant Stars*, Astrophysical Journal Letters, **353**, L39.
- Luttermoser, D.G., Johnson, H.R., Avrett, E.H., & Loeser, R. 1989, *Chromospheric Structure of Cool Carbon Stars*, Astrophysical Journal, **345**, 543.
- Johnson, H.R., Luttermoser, D.G., & Faulkner, D.R. 1988, *The Violet and Ultraviolet Opacity Problem for Carbon Stars*, Astrophysical Journal, **332**, 421.

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Johnson, H.R. & Luttermoser, D.G. 1987, *Ultraviolet Spectra and Chromospheres of Cool Carbon Stars*, *Astrophysical Journal*, **314**, 329.

Johnson, H.R., Alexander, D.R., Bower, C.R., Lemke, D.A., Luttermoser, D.G., Petrakis, J.P., Reinhart, M.D., Welch, K.A., and Goebel, J.H. 1985, *Hydrogen Deficient Atmospheres for Cool Carbon Stars*, *Astrophysical Journal*, **292**, 228.

Papers in Conference Proceedings:

Luttermoser, D.G. 2009, *Of Photons, Gas, and Dust, The Mira Mixmaster*, in *Proceedings of The Biggest Baddest, Coolest Stars*, ed. D.G. Luttermoser, B.J. Smith, & R.E. Stencel, *Astronomical Society of the Pacific Conference Series*, **412**, p. 163 — **invited talk and paper**.

Bidleman, W.P., Cowley, C.R., & Luttermoser, D.G. 2009, *U Antliae – A Dying Carbon Star*, in *Proceedings of The Biggest Baddest, Coolest Stars*, ed. D.G. Luttermoser, B.J. Smith, & R.E. Stencel, *Astronomical Society of the Pacific Conference Series*, **412**, p. 87.

Luttermoser, D.G., & Willson, L.A. 2009, *Summary Session: Where Do We Go From Here?*, in *Proceedings of The Biggest Baddest, Coolest Stars*, ed. D.G. Luttermoser, B.J. Smith, & R.E. Stencel, *Astronomical Society of the Pacific Conference Series*, **412**, p. 223.

Luttermoser, D.G. 2009, *A High-Resolution UV Spectral Atlas for Mira Variable Stars*, in *Proceedings of The Biggest Baddest, Coolest Stars*, ed. D.G. Luttermoser, B.J. Smith, & R.E. Stencel, *Astronomical Society of the Pacific Conference Series*, **412**, p. 243.

Luttermoser, D.G. 2007, *Cool Stars Sing the Blues – The Encore*, in *Proceedings of the 14th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*, ed. G. van Belle, *Astronomical Society of the Pacific Conference Series*, **384**, CD-SUB61.

Smith, T., & Luttermoser, D.G. 2004, *Fluorescent Clues to the Atmospheric Structure of AGB Stars: Data Analysis of IUE Spectra*, in *International Amateur-Professional Photoelectric Photometry Communications*, Issue **88**.

Luttermoser, D.G., & Castelaz, M.W. 2003, *FUSE Observations of a Mira Variable Star*, in *The Future of Cool-Stars: Proceedings of 12th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*, ed. A. Brown, G.M. Harper, & T.R. Ayres, University of Colorado, p. 1042.

Smith, B.J., Castelaz, M.W., & Luttermoser, D.G. 2001, *COBE DIRBE Infrared Light Curves of Mira Variables*, in *Galactic Structure, Stars, and the Interstellar Medium*, ed. Bica, M.D., *Astronomical Society of the Pacific Conference Series*, **231**, p. 556.

Luttermoser, D.G. 2000, *The Chromospheres of Carbon Stars*, in *IAU Symposium #177: The Carbon Star Phenomenon*, ed. R.F. Wing, (Dordrecht: Kluwer Acad. Pub.), p. 105 — **invited talk and paper**.

Publications of Donald G. Luttermoser
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