CURRICULUM VITAE
Donald G. Luttermoser

Personal:

Address:	East Tennessee State University, Department of Physics and Astronomy, Box 70652, Johnson City, TN 37614
E-mail:	lutter@etsu.edu
Phone:	423-439-7064 (office), 423-439-6905 (FAX), 423-753-6177 (home)

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, Department of Astronomy, Indiana University

Employment:

2012–	Department Chair & Professor, East Tennessee State University
2006–2012	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, NASA/GSFC, 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)

Grants Relating to Research (continued):

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)

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 λ10830 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)

Ground-based Observing Grants (continued):

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)
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:	Thirty-one years experience on DECstations, SUNs, AlphaStations, Linux workstations, and SGIs. System Manager for AlphaStation, SUN SparcStation, Linux workstations for twenty years
VAX/VMS:	System Manager of VAXstation 3100 for eight years, nine additional years experience on various mainframes
Fortran 77/90:	Thirty-seven years experience; have operated large radiative transfer codes: PANDORA & ATLAS; some experience with MULTI, TLUSTY, & CLOUDY
C:	Twenty-six years experience on both mainframes and PCs
IDL:	Twenty-six 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-five years)
PC & Mac:	Thirty-one years experience.

Honors, Awards, and Service:

2016
- Participated in the *Common Course ID for Physical Sciences courses* TBR meeting (Feb 9).

2014
- Reviewed General Physics textbook chapters.
- Served as session Chair for during Lee Anne Willson's *Stars: Old, Young & Variable* Retirement Meeting at Iowa State Univ., Ames, IA, (May 18-21).
- Participated in the ETSU INtopFORM Quality Enhancement Program (participation continues through present day).
- Author of the monthly Night Sky articles in the Johnson City Press newspaper (authorship continues through present day).
- NSF Astronomy & Astrophysics Division Proposal Review Panel.
- Wrote an article for a book titled *Why Study Physics* (ISBN 978-1-925128-13-0) edited by Kishor Vaidya of the University of Canberra, Canberra, Australia.

2013
- Lead author of the Departments Self Study for the External Review and served as coordinator for this review.
- Primary contributor to the monthly Night Sky articles in the Johnson City Press newspaper.

2012
- Primary contributor to the monthly Night Sky articles in the Johnson City Press newspaper.

2011
- Contributor to the monthly Night Sky articles in the Johnson City Press newspaper.
- Member of the OIT Networking and Telecommunication Subcommittee for ETSU. (membership continues through present day).
- 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.

Honors, Awards, and Service (continued):

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.

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.

Honors, Awards, and Service (continued):

1990 • Best Graduate Instructor of the Year Award
1987 • Swain Fellowship, Indiana University.
• NASA Graduate Travel Award for the Fifth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun.
• Distinguished Alumni Award — John F. Kennedy High School, Taylor, Michigan.
• Indiana University Associate Instructor Teaching Award Nomination.
1986 • Nominated by department for Best Associate Instructor of the Year
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:

Spring 2014	Mr. Robert J. Whitinger East Tenn. State Univ.	Graduate Independent Study: *Astrometric Modeling* (Math/Astrophysics)
Spring 2013	Mrs. Alyssa M. Adams East Tenn. State Univ.	Senior Honors Thesis: *Exploring the Properties of Mira-Type Stars with Spectropolarimetry* (Astronomy)
	Mr. William Jamieson East Tenn. State Univ.	Senior Honors Thesis: *General Bounds on the Downhill Domination Number in Graphs* (Mathematics)
Fall 2009	Ms. Sabrina Hurlock East Tenn. State Univ.	Senior Honors Thesis **Chair**: *A SoHO Analysis of Coronal Mass Ejections* (Astronomy)
Spring 2008	Mr. Tommy Byrd East Tenn. State Univ.	Independent Study: *GUI Driver Software for ATLAS*, (Astronomy)
Spring 2006	Mr. Changbin Guo East Tenn. State Univ.	M.S. Thesis: *Bayesian Reference Inference on the Ratio on the Ratio of Poisson Rates* (Mathematics – ETO)
	Mr. Dandan Chen East Tenn. State Univ.	M.S. Thesis: *Amended Estimators of Several Ratios for Categorical Data* (Mathemnatics – ETO)
Spring 2004	Ms. Jennifer Salyer East Tenn. State Univ.	Senior Honors Thesis: *Pade Approximation in the Numerical Solution to Solids Deformation* (Mathematics)
	Mr. Alain Talla Souop East Tenn. State Univ.	M.S. Thesis: *Using the EM Algorithm to Estimate the Difference in Dependent Proportions in a 2x2 Table with Missing Data* (Mathemnatics – ETO)
Fall 2003	Ms. Twyla Smith East Tenn. State Univ.	Senior Honors Thesis **Chair**: *Fluorescent Clues to the Atmospheric Structure of AGB Stars* (Astronomy)
	Ms. Jennifer Salyer East Tenn. State Univ.	Senior Honors Thesis: *Societal Influence on Isaac Asimov's Robot Works* (English)
Summer 2003	Ms. Twyla Smith East Tenn. State Univ.	SARA/REU Summer Student: *Fluorescent Clues to the Atmopsheric Structure of AGB Stars* (Astronomy)
Fall 2001	Ms. Rachel Dunn East Tenn. State Univ.	Independent Study: *Stellar Evolution of Massive Stars from Birth to Black Holes*, (Astronomy)
Spring 2000	Mr. Scott Lavoie East Tenn. State Univ.	Independent Study: *Planetary Atmosphere Evolution*, (Astronomy)
Spring 2000	Mr. Jason Osborne East Tenn. State Univ.	Independent Study: *Techniques to Numerically Solve Differential Equations*, (Math/Astronomy)
Fall 1999	Mr. Brian Heaton East Tenn. State Univ.	M.A. Thesis: *The Einstein-Pedosky-Rosen Paradox in Relation to Bell's Theorem*, (Math/Quantum Mechanics)
Spring 1999	Ms. Leslie Rollins East Tenn. State Univ.	M.A. Thesis: *Southern Exposure: The Southern Black Press and the Italo-Ethiopian War*, (History – ETO)
Summer 1998	Mr. Robert Piontek Univ. of Michigan-Dearborn (at ETSU)	SARA/REU Summer Student: *Effective Temperature and Surface Gravity of Mira Variables as a Function of Phase* (Astronomy)
Fall 1997	Mr. William Galliher East Tenn. State Univ.	M.A. Thesis: *On the Oscillation of Solutions of the Lienard Equation*, (Math/Differential Eqns. – ETO)

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

Summer 1997	Ms. Susan Mahar East Tenn. State Univ.	HST grant RA: *The UV Spectra of Mira Variables: A View with HST*
Year 1992/93	Mr. Ralph Haefner Iowa State Univ.	M.S. Thesis: *NLTE Synthetic Spectra of Cepheid Variables*, (Physics/Astrophysics)
Year 1991/93	Mr. Ben Dehner Iowa State Univ.	M.S. Thesis: *NLTE Synthetic Spectra of White Dwarf Stars*, (Physics/Astrophysics)

References:

Dr. Eugene H. Avrett
Center for Astrophysics
60 Garden Street
Cambridge, MA 02138
617-495-7423
617-495-7105 (FAX)
eavrett@cfa.harvard.edu

Dr. Lee Anne Willson
Physics & Astronomy Dept.
Iowa State University
Ames, IA 50011
515-294-6765
515-294-6027 (FAX)
lwillson@iastate.edu

Dr. Mark Giroux
Physics & Astronomy Dept.
East Tennessee State University
Johnson City, TN 37614
423-439-8684
423-439-6905 (FAX)
giroux@etsu.edu

Dr. Michelle Creech-Eakman
Physics Dept.
New Mexico Tech
Socorro, NM 87801
575-835-5809
575-835-5707 (FAX)
mce@inanna.nmt.edu

Dr. Michael W. Castelaz
Pisgah Astron. Research Inst.
1 PARI Drive
Rosman, NC 28772
828-862-5554
828-862-5877 (FAX)
mcastelaz@pari.edu

Dr. Robert B. Gardner
Mathematics & Statistics Dept.
East Tennessee State University
Johnson City, TN 37614
423-439-6979
423-439-8361 (FAX)
gardnerr@etsu.edu

Dr. Gary Henson
Physics & Astronomy Dept.
East Tennessee State University
Johnson City, TN 37614
423-439-6906
423-439-6905 (FAX)
hensong@etsu.edu

Dr. Robert Price, Jr.
Mathematics & Statistics Dept.
East Tennessee State University
Johnson City, TN 37614
423-439-5359
423-439-8361 (FAX)
pricejr@etsu.edu

Dr. Beverly J. Smith
Physics & Astronomy Dept.
East Tennessee State University
Johnson City, TN 37614
423-439-8418
423-439-6905 (FAX)
smithbj@etsu.edu

Dr. Robert E. Stencel
Physics & Astronomy Dept.
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:

Creech-Eakman, M.J., Gueth, T., Luttermoser, D.G., Jurgenson, C.A., Speck, A.K. 2011, *An Interferometrically Derived Sample of Miras with Phase using Spitzer: Paper I – A First Look*, The Astronomical Review, 7, 4.

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., Ensman, 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 g 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 λ10830 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.

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:

Baylis-Aguirre,D., Creech-Eakman, M.J., Luttermoser, D.G., & Güth, T. 2016, in The 19th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, ed. G. A. Feiden, *in press*.

Luttermoser, D.G. 2014, *The Infrared Spectra of Mira Stars*, **invited talk** given at the Iowa State University Stars: Old, Young, and Variable Meeting on 19 May 2014.

Creech-Eakman, M.J., Hora, J., Ivezic, Z., Jurgenson, C., Luttermoser, D., Marengo, M., Speck, A., Stencel, R., & Thompson, R. R. 2009, in Stellar Pulsation: Challenges for Theory and Observation: Proceedings of the International Conference, ed. J.A. Guzik & P.A. Bradley, **1170**, p. 137.

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**.

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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.

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