

BIOGRAPHICAL SKETCH: PHILIP MASSEY

(i) Professional Preparation:

Undergrad:	California Institute of Technology	Astronomy	MS & BS 1975
Graduate:	University of Colorado (Boulder)	Astrophysics	PhD 1980
Postdoc:	Dominion Astrophysical Obs.	(NRC Canada)	1980-1983

(ii) Appointments:

Lowell Observatory, Tenured Astronomer, Starting Oct 2000
Kitt Peak National Observatory, NOAO, Tenured Astronomer, 1990-2000
Kitt Peak National Observatory, NOAO, Tenure-track Astronomer, 1984-1990

(iii) Publications

(a) Five Selected Papers—Related: (*=REU student)

- (1) Slesnick*, C. L., Hillenbrand, L. A., & Massey, P. 2002, “The Star Formation History and Mass Function of the Double Cluster η and χ Persei”, *Astrophysical Journal*, **576**, 880
- (2) Massey, P., Penny, L. R., & Vukovich*, J. 2002, “Orbits of Four Very Massive Binaries in the R136 Cluster”, *Astrophysical Journal*, **565**, 982
- (3) Massey, P., & Duffy*, A. S. 2001, “A Deep Search for Wolf-Rayet Stars in the Small Magellanic Cloud”, *Astrophysical Journal*, **550**, 713
- (4) Massey, P., DeGioia-Eastwood, K., & Waterhouse*, E. 2001, “The Progenitor Masses of Wolf-Rayet Stars and Luminous Blue Variables Determined from Cluster Turn-offs. II. Results from 12 Clusters and OB Associations in the Milky Way”, *Astronomical Journal*, **121**, 1050
- (5) Massey, P., Waterhouse*, E., & DeGioia-Eastwood, K. 2000, “The Progenitor Masses of Wolf-Rayet Stars and Luminous Blue Variables Determined from Cluster Turn-offs. I. Results from 19 OB Associations in the Magellanic Clouds”, *Astronomical Journal*, **119**, 2214

(b) Five Selected Papers—Other:

- (1) Massey, P., Bresolin, F., Kudritzki, R. P., Puls, J., & Pauldrach, A. W. A. 2004, “The Physical Properties and Effective Temperature Scal of O-type Stars as a Function of Metallicity. I. A. Sample of 20 Stars in the Magellanic Clouds”, *Astrophysical Journal*, **608**, 1001
- (2) Massey, P. 2003, “Massive Stars in the Local Group: Implications for Stellar Evolution and Star Formation,” *Annual Review of Astronomy and Astrophysics*, **41**, 15
- (3) Massey, P., & Olsen, K. A. G. 2003, “The Evolution of Massive Stars. I. Red Supergiants in the Magellanic Clouds”, *Astronomical Journal*, **126**, 2867
- (4) Massey, P., Henning, P. A., & Kraan-Kortweweg, R. C. 2003, “A Neighboring Dwarf Irregular Galxy Hidden by the Milky Way”, *Astronomical Journal*, **126**, 2867
- (5) Massey, P., & Holmes, S. 2002, “Wolf-Rayet Stars in IC10: Probing the Nearest Starburst”, *Astrophysical Journal*, **580**, L35

(iv) Synergistic Activities:

(1) At NOAO I had responsibility for the scientific oversight of the Mayall 4-m telescope, and also wrote much of the user documentation for CCD acquisition, CCD reductions, and spectroscopic analysis. Multiple generations of graduate students (and their advisors!) have used these guides to learn the rudiments of modern astronomical data acquisition and reduction techniques.

(2) Each year I've been privileged to mentor a student through the NSF's *Research Experiences for Undergraduates* program. The past 11 students have been female or self-described Hispanic (both groups are clearly under-represented in the physical sciences). In each case our work has produced a published paper (or two), and often these students have presented our work at an American Astronomical Society meeting. These students have gotten into the best graduate schools, and the earliest of these have now earned their PhDs and are becoming the "young turks" of their chosen fields (e.g., Cornelia Lang, Kelsey Johnson, Caryl Gronwall and Jennifer Johnson). I can claim no credit for this, but at least their work with me did not have an adverse influence on their careers!

(v) Collaborators & Other Affiliations:

(a) Collaborators

Lawrence Aller (deceased, UCLA); Luciana Bianchi (John Hopkins); Cindy Blaha (Carleton College); Ralph Bohlin (STScI); Fabio Bresolin (IFA-Univ. of Hawaii); Peter Conti (JILA); Angela Cotera (ASU); Paul Crowther (Univ. Sheffield); Kathy DeGioia-Eastwood (Northern Arizona University); R. DiStefano (Harvard); Alaine Duffy (REU student, now data aide at CFA-Harvard); Bruce Elmegreen (IBM); Otto Franz (Lowell Obs.); Eva Grebel (Max Planck Institute); Craig Foltz (NSF); Doug Gies (GSU); Jason Harris (STScI); Trish Henning (UNM); Lynne Hillenbrand (Caltech); Paul Hodge (Univ. Wash.); Shay Holmes (REU, now a grad student at Univ. Texas); Ian Howarth (Univ. College London); W. Huang (GSU); Deidre Hunter (Lowell Obs.); George Jacoby (WIYN/NOAO); Kelsey Johnson (REU, now NSF postdoc at Univ. Wisc.); Dick Joyce (NOAO); Renee Kraan-Korteweg (Guanajuato); Nichole King (none); Chip Kobulnicky (Univ. Wyoming); Rolf Kudritzki (Director, IFA-Hawaii); Jim Liebert (Univ. Ariz.); Danny Lennon (Isaac Newton Group-La Palma); Heather McEwen (MIT Field Camp student); Zhenye Mei (MIT Field Camp student); Michael Meyer (Steward Obs.); Tony Moffat (Univ. Montreal); Nidia Morrell (Las Campanas Obs.); Virpi Niemela (La Plata) Sally Oey (Lowell Obs.); Knut Olsen (CTIO/NOAO); Joel Parker (SWRI); Adi Pauldrach (Univ. Munich); Laura Penny (Univ. Charleston); Joachim Puls (Univ. Munich); Abhijit Saha (KPNO/NOAO); Wayne Schlingman (REU, undergrad at UNM); Ted Simon (IFA-Hawaii); Dave Silva (ESO); Cathy Slesnick (REU, now grad student at Caltech) Chris Smith (CTIO/NOAO); Ted Snow (CASA); Ted Stecher (GSFC/NASA); Kim Venn (Macalester College); Julia Vukovich (REU student); Nolan Walborn (STScI); Larry Wasserman (Lowell Obs.); Elizabeth Waterhouse (REU student); Ben Williams (CFA); Sidney Wolff (NOAO); Dennis Zaritsky (Steward Obs.)

(b) Graduate and Postdoctoral Advisors

Peter S. Conti (JILA); Katy Garmany (Columbia); John Hutchings (DAO)

(c) Thesis Advisor and Postgraduate-Scholar Sponsor:

Sally Oey (U. Mich.); Nichole King (none); Andrea Leistra (Univ. Ariz.); Joel Parker (SWRI)