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PERSONAL INFORMATION

Date of Birth: 12.08.1981
Place of Birth: Berlin, Germany
Citizenship: German

RESEARCH INTERESTS

Topics: Stellar spectroscopy, stellar winds, stellar atmospheres, nebular physics, late stages of massive star evolution (luminous blue variables, yellow hypergiants, red and blue supergiants), variable massive stars, supernova impostors, supernova progenitors.

Objectives: Evolutionary stages of evolved massive stars, stellar variabilities and instabilities, nature of high mass-loss episodes.

Methods: Ultra-violet to mid-infrared spectroscopy, photometry, and interferometry. Analysis of the stellar parameters, variabilities, large-scale morphologies, small-scale structures, velocities, kinematic ages, current mass-loss geometries, abundances, electronic densities, ionization fractions, and dust production.

EDUCATION

- 08/2007-06/2011** **University of Minnesota, Twin Cities, USA — Ph.D., Astrophysics**
Exploring and Modeling High-excitation Emission in the Ejecta and the Wind of Eta Carinae (advisor: Prof. Kris Davidson).
- 09/2004-06/2005** **University of Granada, Granada, Spain — Physics**
Erasmus Programme.
- 10/2001-07/2007** **Friedrich Schiller University, Jena, Germany — Diploma in Physics (equiv. to M.Sc.)**
Multiplicity of Tight Ultra Low Mass Systems (advisor: Dr. Eike Guenther).

PROFESSIONAL EXPERIENCE

- 05/2015-PRESENT** **Staff astronomer, European Southern Observatory (ESO), Santiago, Chile**
Functional duties on Paranal (105 days per year). UT2/UT3 night support astronomer.
- Experience as instrument scientist:
- X-shooter instrument scientist (since 2015)
 - ESPRESSO instrument scientist backup (since 2016)
 - VISIR instrument scientist backup (2015-2016)
 - VIMOS instrument scientist (2015)
- Other Objectives:
- General Operations Coordinator (since 2018)
 - Project scientist of an observation preparation software in development encompassing all ESO instruments (since 2017)
 - UT2 telescope coordinator (2015-2017)
 - Training of staff
- 09/2011-04/2015** **Postdoctoral Research Fellow, European Southern Observatory (ESO), Santiago, Chile**
Functional duties on Paranal (80 days per year). UT2/UT3 night support astronomer, X-shooter fellow, General Operation Group member. Participated in X-shooter commissionings of new modes and telescope moves. Training of staff.
- 01/2008-06/2011** **Research Assistant, University of Minnesota, Twin Cities, USA**
Modification of specific reduction and analysis software for HST STIS data developed by the Eta Carinae Treasury Project Team. Developed a program for the use of spectra affected by atmospheric differential refraction.
- 08/2007-12/2008** **Teaching Assistant, University of Minnesota, Twin Cities, USA**
Taught laboratory section of an introductory astronomy course.
- 04/2003-03/2004** **Teaching Assistant, Friedrich Schiller University, Jena, Germany**
Graded coursework and exams of an experimental physics course.
- 07/2002-01/2003** **Paid Internship, Fraunhofer IOF (Institute of Applied Optics and Precision Engineering), Jena, Germany**
Conducted experiments in precision engineering. Setting up and equipping an optical laboratory.
- 07/2004-08/2004** **Internship, Friedrich Schiller University, Jena, Germany**
Spectroscopic analysis of data obtained during the 2004 Venus-Transit with the 0.9m telescope of the University of Jena.

COMMUNITY SERVICES & OUTREACH

- 09/2017-11/2017** **Bachelor thesis advisor**
Robert Kavanagh (Trinity College Dublin, the University of Dublin, Ireland; thesis work performed at ESO Chile)

- 06/2017** **SOC member**
Eta Carinae, LBVs, and Supernova Impostors, University of Pittsburgh, Pittsburgh, USA
- 2015-2018** **Member of the fellowship and studentship selection committee, ESO, Santiago, Chile**
- 2014-PRESENT** **Referee for ApJ, A&A, MNRAS**
- 08/2013-04/2015** **Student Mentor**
Matthew Shultz (Ph.D. student at ESO Chile).
- 11/2012-10/2014** **Colloquium Organizer, ESO, Santiago, Chile**
- 11/2012** **LOC member**
ESO Workshop on Ecology of Blue Straggler Stars, Santiago, Chile
- 08/2007-06/2011** **Public Outreach, University of Minnesota, Twin Cities, USA**
Presentations and night sky viewing events to audiences of all ages on a monthly basis. Involved with the NASA sponsored "Universe in the Park" program and with hosting weekly public sky viewing nights at the University of Minnesota Department of Astronomy.
- 07/2006-07/2007** **Public Outreach, Karl Schwarzschild Observatory, Tautenburg, Germany**
Public observatory tours on a weekly basis.

HONORS

- 2010-2011** **Doctoral Dissertation Fellowship**
Awarded \$22,500 by the Graduate School at The University of Minnesota, USA, to support dissertation research.
- 01/2010** **Nagoya University Global COE Program in Physics Fellowship**
Support for a three weeks science stay at Nagoya University, Japan.
- 2004-2005** **Erasmus Scholarship**
Support for one academic year at the University of Granada, Spain.

SKILLS

Languages: German (native), English (fluent), Spanish (good), Dutch (basic).

Computer: FORTRAN; C; Python; AWK; SED; LaTeX; HTML/CSS; Mac OS X; Unix; experience in data reduction with IRAF, IDL, and amdlib; extensive experience with ESO pipelines (esorex, gasgano, reflex) reducing and analyzing X-shooter, MUSE, ESPRESSO, VISIR, FORS2, CRIRES, UVES, FLAMES, ISAAC, HAWKI, SINFONI data; plasma simulation code CLOUDY; radiative transfer code CMFGEN.

REFEREED PUBLICATIONS

Summary: refereed articles = 36 (12 as first author since 2008), h-index = 16

1. *The cataclysmic variable QZ Lib: a period bouncer*, A. F. Pala, L. Schmidtbreick, C. Tappert, B. T. Gänsicke, **A. Mehner** 2018, MNRAS, 481, 2523
2. *Short-term variability and mass loss in Be stars. IV. Two groups of closely spaced, approximately equidistant frequencies in three decades of space photometry of ν Puppis (B7-8 IIIe)*, D. Baade, et al (**A. Mehner** one of 16 co-authors) 2018, A&A, 620, 145
3. *The supermassive black hole coincident with the luminous transient ASASSN-15lh*, T. Kruehler, et al (**A. Mehner** one of 14 co-authors) 2018, A&A, 610, 14
4. *Cosmic evolution and metal aversion in super-luminous supernova host galaxies*, S. Schulze, T. Krühler, G. Leloudas, J. Gorosabel, **A. Mehner**, et al. 2018, MNRAS, 473, 1258
5. *Stellar parameters of Be stars observed with X-shooter*, A. Shokry, Th. Rivinius, **A. Mehner**, et al. 2018, A&A, 609, 108
6. *The MUSE view of the host galaxy of GRB 100316D*, L. Izzo, C.C. Thöne, S. Schulze, **A. Mehner**, et al. 2017, MNRAS, 472, 4480
7. *Spectroscopic and photometric oscillatory envelope variability during the S Doradus outburst of the Luminous Blue Variable R71*, **A. Mehner**, D. Baade, J.H. Groh, et al. 2017, A&A, 608, 124
8. *Multi-messenger Observations of a Binary Neutron Star Merger*, B.P. Abbott et al. (**A. Mehner** one of 3674 co-authors) 2017, ApJ, 848, 12
9. *Dissecting a SN impostor's circumstellar medium: MUSEing about the SHAPE of η Car's outer ejecta*, **A. Mehner**, W. Steffen, J.H. Groh, F.P.A. Vogt, D. Baade, H.M.J. Boffin, K. Davidson, W.J. de Wit, R.M. Humphreys, C. Martayan, R.D. Oudmaijer, T. Rivinius, F. Selman, 2016, A&A, 595, 120
10. *VLTI-AMBER velocity-resolved aperture-synthesis imaging of η Carinae with a spectral resolution of 12 000. Studies of the primary star wind and innermost wind-wind collision zone*, G. Weigelt, et al. (**A. Mehner** one of 28 co-authors), 2016, A&A, 594, 106
11. *450 d of Type II SN 2013ej in optical and near-infrared*, F. Yuan et al. (**A. Mehner** one of 33 co-authors), 2016, MNRAS, 461, 2003
12. *The LBV HR Car has a partner: Discovery of a companion with the VLTI*, H.M.J. Boffin, T. Rivinius, A. Merand, **A. Mehner**, J.-B. LeBouquin, D. Pourbaix, W.J. de Wit, C. Martayan, S. Guieu, 2016, A&A, 593, 90
13. *Interacting supernovae and supernova impostors. LSQ13zm: an outburst heralds the death of a massive star*, L. Tartaglia et al. (**A. Mehner** one of 39 co-authors), 2016, MNRAS, 459, 1039
14. *Short-term variability and mass loss in Be stars I. BRITe satellite photometry of η and μ Centauri*, D. Baade et al. (**A. Mehner** one of 15 co-authors), 2016, A&A, 588, 56
15. *Luminous blue variables: An imaging perspective on their binarity and near environment*, C. Martayan, A. Lobel, D. Baade, **A. Mehner**, and 17 coauthors, 2016, A&A, 587, 115
16. *VLTI/MUSE discovers a jet from the evolved B[e] star MWC 137*, **A. Mehner**, W.J. de Wit, J.H. Groh, R.D. Oudmaijer, D. Baade, T. Rivinius, F. Selman, H.M.J. Boffin, C. Martayan 2016, A&A, 585, 81

17. *Identification of dusty massive stars in star-forming dwarf irregular galaxies in the Local Group with mid-IR photometry*, N. E. Britavskiy, A. Z. Bonanos, **A. Mehner**, M.L. Boyer, K.B.W. McQuinn, 2015, A&A, 584, 33
18. *Eta Carinae's 2014.6 Spectroscopic event: Clues to the long-term recovery from its Great Eruption*, **A. Mehner**, K. Davidson, R. M. Humphreys, F. M. Walter, D. Baade, W. J. de Wit, J. C. Martin, K. Ishibashi, T. Rivinius, C. Martayan, M. T. Ruiz, K. Weis 2015, A&A, 578, 122
19. *Spectroscopy of superluminous supernova host galaxies. A preference of hydrogen-poor events for extreme emission line galaxies*, G. Leloudas, S. Schulze, T. Kruehler, J. Gorosabel, **A. Mehner**, and 13 coauthors, 2015, MNRAS, 449, 917
20. *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, 801L, 15
21. *The three-dimensional structure of the Eta Carinae Homunculus*, W. Steffen, M. Teodoro, T. I. Madura, J. H. Groh, T. R. Gull, **A. Mehner**, M. F. Corcoran, A. Damineli, K. Hamaguchi, 2014, MNRAS 442, 3316
22. *Near-Infrared Evidence for a Sudden Temperature Increase in Eta Carinae*, **A. Mehner**, K. Ishibashi, P. Whitelock, T. Nagayama, M. Feast, F. van Wyk, W.J. de Wit, 2014, A&A, 564, 14
23. *A new technique of discovering red supergiants in nearby galaxies with mid-IR photometry*, N. E. Britavskiy, A. Z. Bonanos, **A. Mehner**, D. Garcia-Alvarez, J. L. Prieto, N. I. Morrell, 2014, A&A, 562, 75
24. *Possible astrometric discovery of a substellar companion to the closest binary brown dwarf system WISE J104915.57-531906.1*, H. M. J. Boffin, D. Pourbaix, K. Muzic, V. D. Ivanov, R. Kurtev, Y. Beletsky, **A. Mehner**, J. P. Berger, J. H. Girard, D. Mawet, 2014, A&A, 561, 4
25. *Unexpected Ionization Structure in Eta Carinae's "Weigelt Knots"*, G. N. Remmen, K. Davidson, **A. Mehner**, 2013, ApJ, 773, 27
26. *Broad-band Spectroscopy of the Ongoing Large Eruption of the Luminous Blue Variable R71*, **A. Mehner**, D. Baade, T. Rivinius, D. J. Lennon, C. Martayan, O. Stahl, O., S Stefl, 2013, A&A, 555, 116
27. *Characterization of the Nearby L/T Binary Brown Dwarf WISE J104915.57-531906.1 at 2 Parsecs from the Sun*, A. Y. Kniazev, P. Vaisanen, K. Muzic, **A. Mehner**, H. M. J. Boffin, R. Kurtev, C. Melo, V. D. Ivanov, J. Girard, D. Mawet, and 15 co-authors, 2013, ApJ, 770, 124
28. *Galaxy counterparts of intervening high-z sub-DLAs/DLAs and MgII absorbers towards gamma-ray bursts*, S. Schulze, J. P. U. Fynbo, B. Milvang-Jensen, A. Rossi, P. Jakobsson, C. Ledoux, A. De Cia, T. Kruehler, **A. Mehner**, and 13 co-authors, 2012, A&A, 546, 20
29. *Secular Changes in Eta Carinae's Wind 1998-2011*, **A. Mehner**, K. Davidson, R. M. Humphreys, K. Ishibashi, J. C. Martin, M. T. Ruiz, F. M. Walter, 2012, ApJ, 751, 73
30. *Critical Differences and Clues in Eta Car's 2009 Event*, **A. Mehner**, K. Davidson, J. C. Martin, R. M. Humphreys, K. Ishibashi, G. J. Ferland, 2011, ApJ, 740, 80
31. *N II λ 5668-5712 Absorption, a New Class of Spectral Features in Eta Carinae*, **A. Mehner**, K. Davidson, G. J. Ferland, 2011, ApJ, 737, 70
32. *A Sea Change in Eta Carinae*, **A. Mehner**, K. Davidson, R. M. Humphreys, J. C. Martin, K. Ishibashi, G. J. Ferland, N. Walborn, 2010, ApJL, 717, 22

33. *Mid-cycle Changes in Eta Carinae*, J. C. Martin, K. Davidson, R. M. Humphreys, **A. Mehner**, 2010, AJ, 139, 2056
34. *High-excitation Emission Lines Near Eta Carinae and Its Likely Companion Star*, **A. Mehner**, K. Davidson, G. J. Ferland, R. M. Humphreys, 2010, ApJ, 710, 729
35. *Short-term Spectroscopic Monitoring of Two Cool Dwarfs with Strong Magnetic Fields*, E. W. Guenther, M. R. Zapatero Osorio, **A. Mehner**, E. L. Martín, 2009, A&A, 498, 281

OTHERS

1. *The 2018 Census of Luminous Blue Variables in the Local Group*, N. Richardson, **A. Mehner**, 2018, RNAAS, 2, 121
2. *Science Verification for the VISIR Upgrade*, D. Asmus, M. van den Ancker, V. Ivanov, H.-U. Käufl, F. Kerber, B. Leibundgut, **A. Mehner**, Y. Momany, E. Pantin, K.R.W. Tristram, 2016, Msng, 164, 14

CONFERENCE PROCEEDINGS

1. *BRITening up the Be Phenomenon*, D. Baade, et al. (**A. Mehner** one of 16 co-authors) 2017, 2018pas8.conf...69B
2. *Changes in the Near-UV Spectrum of eta Car 2002 - 2015*, J. C. Martin, K. Davidson, K. Ishibashi, R. M. Humphreys, **A. Mehner**, 2018, AAS Meeting #231, #341.04 (poster)
3. *Not so lonely: The LBV binary HR Car*, T. Rivinius,, H.M.J. Boffin, A. Merand, **A. Mehner**, et al. 2017, IAUS, 329, 440 (poster)
4. *MUSEing about the SHAPE of eta Car's outer ejecta*, **A. Mehner**, W. Steffen, J. Groh, et al. 2017, IAUS, 329, 423 (poster)
5. *X-Shooter: The First of the VLT Second Generation Instruments*, **A. Mehner** 2017, 2017 ESO Calibration Workshop, 2017sgvi.confE..28M (oral)
6. *Pulsations and outbursts in Be stars: Small differences - big impacts*, D. Baade, et al. (**A. Mehner** one of 15 co-authors) 2016, Proc. 2nd BRITe-Constellation Science Conference: 'small satellites - big science', Innsbruck, Aug. 2016, 2017sbcs.conf..196B (oral)
7. *The Jet from MWC 137 Points at a Supergiant B[e] Star in a Binary*, **A. Mehner**, W.J. de Wit, J.H. Groh, et al. 2017, ASPC, 508, 267 (oral)
8. *Modeling and Observations of Massive Binaries with the B[e] Phenomenon*, A. Lobel, C. Martayan, **A. Mehner**, J.H. Groh 2017, ASPC, 508, 245 (oral)
9. *Near IR observations of η Car: Reaching its critical rotation?*, K. Ishibashi, **A. Mehner**, T. Nagayama, 2016, JPhCS, 728, 7 (oral)
10. *Recovery from a Giant Eruption: The Case of Eta Car*, K. Davidson, **A. Mehner**, J.C. Martin, R.M. Humphreys, 2016, AAS Meeting #227, #345.24 (poster)
11. *The Rapid Brightening of Eta Carinae*, J.C. Martin, K. Davidson, **A. Mehner**, R.M. Humphreys, 2016, AAS Meeting #227, #345.23 (poster)
12. *Imaging and Spectroscopy of The Massive Binaries MWC 314 and HD 168625*, A. Lobel, C. Martayan, D. Baade, **A. Mehner**, J.H. Groh, 2015, EAS Publications Series, Vol. 71-72, 169-171 (poster)

13. *Luminous Blue Variables, Cool Hypergiants, and Supernova Impostors: The Role of Episodic Mass Loss*, **A. Mehner**, W.J. de Wit, D. Baade, H.M.J. Boffin, K. Davidson, J.H. Groh, R.M. Humphreys, C. Martayan, R.D. Oudmaijer, T. Rivinius, F. Selman, W. Steffen 2015, EAS Publications Series, Vol. 71-72, 49-51 (poster)
14. *Identification of red supergiants in the Local Group with mid-IR photometry*, N. Britavskiy, A. Bonanos, **A. Mehner**, 2015, IAUGA, 2245786B (poster)
15. *Binarity of the LBV HR Car*, T. Rivinius, H.M.J. Boffin, W.J. de Wit, **A. Mehner**, C. Martayan, S. Guieu, J.B. Le Bouquin, 2014, New Windows on Massive Stars: Asteroseismology, Interferometry and Spectropolarimetry (poster)
16. *OHANA: Eta Carinae's Variability in the Near-IR*, **A. Mehner**, W.J. de Wit, T. Rivinius, and the Paranal VLTI group, 2014, New Windows on Massive Stars: Asteroseismology, Interferometry and Spectropolarimetry (poster)
17. *Luminous Infrared Sources in the Local Group: Identifying the Missing Links in Massive Star Evolution*, N. Britavskiy, A. Bonanos, **A. Mehner**, 2014, New Windows on Massive Stars: Asteroseismology, Interferometry and Spectropolarimetry (poster)
18. *Eta Carinae's change of state: First new HST/NUV data since 2010, and the first new FUV since 2004*, J. C. Martin, **A. Mehner**, K. Ishibashi, K. Davidson, R. M. Humphreys, 2014, AAS Meeting #223, #151.09 (poster)
19. *The Current Eruption of the LBV R71: Very Large and Very Cool*, **A. Mehner**, D. Baade, T. Rivinius, D. J. Lennon, C. Martayan, O. Stahl, S. Štefl, 2013, Massive Stars: From α to Ω , Rhodos, Greece, 2013msao.confE.168M (poster)
20. *The geometry and dynamics of mass-loss at milli-arcsecond scales of massive stars in transition*, W.J. de Wit, H. Wheelwright, R. D. Oudmaijer, **A. Mehner**, 2013, Massive Stars: From α to Ω , Rhodos, Greece, 2013msao.confE.146D (poster)
21. *A New Technique for Identifying Red Supergiants in the Local Group*, N. Britavskiy, A. Bonanos, **A. Mehner**, D. Garcia, J. Prieto, 2013, Massive Stars: From α to Ω , Rhodos, Greece, 2013msao.confE.112B (oral contribution)
22. *On the Binarity of LBV Stars*, Martayan et al. (**Mehner**: 18th co-author), 2012, ASP Conf. Proc., 464, 293 (oral contribution)
23. *Exploring and Modeling the High-excitation Emission in the Ejecta and Wind of Eta Carinae*, **A. Mehner**, 2011, AAS Meeting #217, #232.04 (oral contribution)
24. *Tracking Eta Car Through the 2009.0 Event*, J. C. Martin, **A. Mehner**, K. Davidson, R. M. Humphreys, K. Ishibashi, G. Ferland, 2011, AAS Meeting #217, #154.12 (poster)
25. *High Excitation Emission Lines in the Close Environment of Eta Carinae*, **A. Mehner**, K. Davidson, R. M. Humphreys, 2009, AAS Meeting #214, #428.03 (poster)
26. *Fresh Clues in Eta Carinae's 2009.0 Event*, K. Davidson, J. C. Martin, R. M. Humphreys, **A. Mehner**, K. Ishibashi, G. Ferland, F. Hamann, 2009, AAS Meeting #214, #428.11 (poster)

OTHER ORAL AND POSTER CONTRIBUTIONS

1. *Spectroscopic and photometric oscillatory envelope variability during the S Doradus outburst of the Luminous Blue Variable R71*, **A. Mehner**, 2018, Massive Stars and Supernovae, Bariloche, Argentina (poster contribution)

2. *The impact of binarity on the LBV phenomenon*, **A. Mehner**, 2017, The IMPACT of BINARIES on STELLAR EVOLUTION, ESO Garching (poster contribution)
3. *Eta Carinae: The outer ejecta*, **A. Mehner**, 2017, Eta Carinae, LBVs, and Supernova Impostors, University of Pittsburgh, Pittsburgh, USA (oral contribution)
4. *X-shooter: the first of the VLT second generation instruments*, **A. Mehner**, 2017, 2017 ESO Calibration Workshop: the second generation VLT instruments and friends, ESO Santiago, Chile (oral contribution)
5. *The Binary Nature of the LBV HR Car*, H.M.J. Boffin, T. Rivinius, J.-B. LeBouquin, W.J de Wit, **A. Mehner**, C. Martayan, S. Guieu, 2015, Stellar End Products: the low mass - high mass connection, ESO Garching, Germany (poster contribution)
6. *Doppler tomography studies of the dwarf nova QZ Lib*, L. Schmidtbreick, C. Tappert, B. Gänsicke, **A. Mehner**, 2014, HIRES 2014: "Astronomy at high angular resolution - a cross-disciplinary approach", ESO Garching, Germany (poster contribution)
7. *The Potential eta Car like Binarity of the LBV HR Car*, T. Rivinius, H.M.J. Boffin, W.J. de Wit, **A. Mehner**, C. Martayan, S. Guieu, J.B. Le Bouquin, 2014, HIRES 2014: "Astronomy at high angular resolution - a cross-disciplinary approach", ESO Garching, Germany (poster contribution)
8. *Improving the Observational Upper HR Diagram - Luminous Blue Variables in the LMC and SMC*, 2014, Journal Club, Geneva Observatory, Geneva, Switzerland (oral contribution)
9. *The SUSHIES Project - Revealing the Nature of Superluminous Supernovae through their Host Galaxies*, Schulze et al. (**Mehner**: 6th co-author), 2014, Supernovae in the Local Universe: Celebrating 10,000 Days of Supernova 1987A, Coffs Harbour, Australia (poster)
10. *The 2014.5 Periastron Passage of Eta Carinae*, 2014, Seminar, Geneva Observatory, Geneva, Switzerland (oral contribution)
11. *The Current Eruption of the LBV R71: Very Large and Very Cool*, 2013, Hot Star Group Meeting, ESO Vitacura, Santiago de Chile, Chile (oral contribution)
12. *Monitoring the Variabilities of Evolved Massive Stars*, 2013, UC Observatory Science Day, Centro de Astro-Ingeniera, Universidad Catolica, Santiago de Chile, Chile (oral contribution)
13. *R71 and an outburst with a distinction*, **A. Mehner**, D. Baade, T. Rivinius, D. J. Lennon, C. Martayan, O. Stahl, S. Stefl, 2013, ESO workshop on The Deaths of Stars and the Lives of Galaxies, Santiago, Chile (poster)
14. *Eta Carinae: The recovery of a supernova impostor*, **A. Mehner**, K. Ishibashi, W.J. de Wit, T. Nagayama, 2013, ESO workshop on The Deaths of Stars and the Lives of Galaxies, Santiago, Chile (poster)
15. *Monitoring the Outburst of the Luminous Blue Variable R71 with X-shooter*, **A. Mehner**, D. Baade, O. Stahl, T. Rivinius, C. Martayan, S. Stefl, 2012, A Workshop on Outstanding Problems in Massive Star Research - The Final Stages, St. Paul, MN, USA (poster)
16. *JHK Photometry of Eta Carinae with IRSF/SIRIUS - Another Evidence for the Decreasing Wind Hypothesis*, **A. Mehner**, K. Ishibashi, T. Nagayama, 2012, A Workshop on Outstanding Problems in Massive Star Research - The Final Stages, St. Paul, MN, USA (poster)
17. *Eta Carinae and Its Company*, 2012, Star Cluster Group Meeting, ESO Vitacura, Santiago de Chile, Chile (oral contribution)

18. *Eta Carinae and the SN Impostors*, 2012, SN club, Universidad de Chile, Santiago de Chile, Chile (oral contribution)
19. *The Variability of Eta Carinae with Respect to its Companion*, 2012, ESO workshop “Variability at different evolutionary stages of binary stars”, ESO Vitacura, Santiago de Chile, Chile (oral contribution)
20. *Eta Carinae’s Long-term Recovery from its Great Eruption in the 1850s*, 2011, ESO Fellows Days, ESO Vitacura, Santiago de Chile, Chile (oral contribution)
21. *Eta Carinae’s Long-term Recovery from its Great Eruption and the 2009 Event*, 2011, IAA Seminar, Athens, Greece (oral contribution)
22. *High-excitation Emission in the Ejecta and Wind of Eta Carinae*, **A. Mehner**, 2011, Doctoral Dissertation Fellowship Research Showcase, University of Minnesota, MN, USA (poster)
23. *Variations of High-excitation Emission Lines in Eta Carinae*, 2010, Global-COE Workshop on Eta Carinae and its Surrounding Media, Nagoya University, Nagoya, Japan (oral contribution)

CIRCULARS AND TELEGRAMS

1. ATel #6515 (2014), *Discovery and Classification of 8 SNe from the Dark Energy Survey*, M. Smith+
2. ATel #6448 (2014), *Eta Car’s spectroscopic event compared to 2009*, K. Davidson, **A. Mehner**, R.M. Humphreys, J.C. Martin
3. ATel #6408 (2014), *Eta Car’s spectroscopic event begins to differ from 2009*, K. Davidson, **A. Mehner**, R.M. Humphreys, K. Ishibashi, J.C. Martin
4. ATel #6368 (2014), *eta Carinae - Caught in Transition to the Photometric Minimum*, R.M. Humphreys, J.C. Martin, **A. Mehner**, K. Ishibashi, K. Davidson
5. IAU Circ., 9094, 1 (2009), *Brightening of the central star in eta Carinae - star now accounts for half of the light seen in the Homunculus nebulae compared to less than 10% before 1995*, K. Davidson, **A. Mehner**, J. C. Martin
6. IAU Circ., 9012, 1 (2009), *High rate of decline in STMAG magnitudes at 250 nm during eta Carinae’s 2009 event*, K. Davidson, J. C. Martin, R. M. Humphreys, **A. Mehner**
7. IAU Circ., 8961, 1 (2008), *Appearance of He II 4687 in the spectrum of eta Carinae - the first definite sign of the 2009 spectroscopic event*, J. C. Martin, K. Davidson, R. M. Humphreys, **A. Mehner**, F. Hamann, G. Ferland, K. Ishibashi

AWARDED TELESCOPE TIME

Eta Carinae

- 2017 **PI**, VLT VISIR, 101.D-0077(A,B), Paranal, Chile — 8h
- 2014 Col (PI Ishibashi), IRSF SIRIUS, SAAO, South Africa — 7n
- 2013 **PI**, HST/STIS, GO 13377, GO 13789 — 11 orbits in Cycle 21/22 (2013-2015)
PI, VLT UVES, 592.D-0047(A,B,C,D), Paranal, Chile — 21h in P92-P95 (2013-2015)
PI, IRSF SIRIUS, SAAO, South Africa — 7n
Col (PI Ruiz), REM, CN2013A-104, LCO, CHILE — 12h
- 2012 **PI**, Pucheros on the ESO-50 cm telescope, Observatorio UC, Chile — 6n
PI, VLT UVES 089.D-0024, Paranal, Chile — 1.5h
Col (PI Ishibashi), IRSF SIRIUS, SAAO, South Africa — 7n
- 2011 Col (PI Ruiz), Irénée du Pont B&C, Las Campanas, Chile — 6n

Evolved massive stars (LBVs, RSGs, WR stars, sg[Be], Hypergiants, SN impostors)

- 2018 **PI**, VLT X-shooter, 5103.D-0004(A,B,C,D), Paranal, Chile — 3.2h (2018-2020)
Col (PI Bartlett), VLT X-shooter, 103.D-0439, Paranal, Chile — 2h
Col (PI Vogt), VLT MUZE, 0102.C-0589, Paranal, Chile — 4h
Col (PI Bartlett), VLT X-shooter, 2101.D-5040, Paranal, Chile — 20h
- 2017 Col (PI Sanchez), VLT GRAVITY 0101.D-0692, Paranal, Chile — 6h
Col (PI Bartlett), VLT X-shooter, 0101.D-0441, Paranal, Chile — 20h
Col (PI Boffin), VLT GRAVITY and PIONIER, 0100.D-0194, Paranal, Chile — 16h
PI, VLT VISIR, 0100.D-0014, Paranal, Chile — 9h
- 2016 Col (PI Kaminski), VLT X-shooter, 099.D-0010, Paranal, Chile — 6n
PI, VLT X-shooter, 598.D-0005(A,B,C,D), Paranal, Chile — 3.2h (2016-2018)
PI, VLT VISIR, 098.D-0071, Paranal, Chile — 12.5h
- 2015 **PI**, VLT X-shooter, 096.D-0006, Paranal, Chile — 0.8h
PI, VLT X-shooter, 096.D-0047, Paranal, Chile — 11h
Col (PI Boffin), VLT PIONIER, 596.D-0335, Paranal, Chile — 4.6n
Col (PI Baade), VLT X-shooter, 096.D-0043(A,B,C), Paranal, Chile — 1.2h
Col (PI Britavskiy), VLT FORS2, 095.D-0313, Paranal, Chile — 2.7h
- 2014 Col (PI Tappert), FEROS, CN2014B-31, La Silla, Chile — 3n
Col (PI Schulze), REM, CN2014B-24, LCO, Chile — 25h
PI, VLT MUZE, 094.D-0215, Paranal, Chile — 9h
Col (PI Baade), VLT X-shooter, 094.D-0266, Paranal, Chile — 1.2h
Col (PI Boffin), VLT PIONIER, 094.D-0069, Paranal, Chile — 0.25n
Col (PI Lagadec), ALMA, cycle 2, Chile — 2.1h
Col (PI Schulze), REM, CN2014A-23, LCO, Chile — 40h
Col (PI Baade), VLT X-shooter, 093.D-0579, Paranal, Chile — 0.8h
- 2013 **PI**, VLT FLAMES, 091.D-0015, Paranal, Chile — 6h
PI, VLT FORS2, 091.D-0010, Paranal, Chile — 3.4h
Col (PI Schulze), REM, CN2013B-6, LCO, Chile — 30h
Col (PI Baade), VLT X-shooter, 092.D-0024, Paranal, Chile — 1.2h
Col (PI de Wit), VLT AMBER, 092.D-0289, Paranal, Chile — 45h
Col (PI Rivinius), VLT MIDI, 092.D-0306, Paranal, Chile — 1n
Col (PI Baade), VLT X-shooter, 091.D-0116, Paranal, Chile — 0.8h
- 2012 **PI**, VLT FORS2, 090.D-009, Paranal, Chile — 11h
Col (PI Baade), VLT X-shooter, DDT 289.D-5040, Paranal, Chile — 1h

Massive Stars

- 2014 Col (PI Martayan), VLT X-shooter, 093.D-0415, Paranal, Chile — 89h
Col (PI Shultz), VLT X-shooter, 093.D-0448, Paranal, Chile — 7.2h

GRBs

- 2016 Col (PI de Ugarte Postigo), NOEMA, W16EL — 17h
Col (PI Kim), ALMA Cycle 4, 2016.1.00862.T — 8.1h
Col (PI de Ugarte Postigo), IRAM NOEMA, S16CR — 24h
- 2015 Col (PI Schulze), ALMA Cycle 3, 2015.1.01558.T — 24h

Supernovae

- 2018 Col (PI KERZENDORF), VLT X-shooter, 2101.D-5040, Paranal, Chile — 7h
- 2015 Col (PI Kim), VLT MUSE, 097.D-1054, Paranal, Chile — 18h
Col (PI Schulze), VLT MUSE, 096.D-0786, Paranal, Chile — 24h
Col (PI Schulze), REM, LCO, Chile — 32n
Col (PI Thoene), VLT VIMOS, 095.B-0702, Paranal, Chile — 15h
Col (PI Schulze), Magellan BAADE, LCO, Chile — 0.5n
- 2014 Col (PI Schulze), VLT X-shooter, 094.D-0926, Paranal, Chile — 11.3h
Col (PI Leloudas), VLT X-shooter, 093.D-0867, Paranal, Chile — 5.5h
- 2013 Col (PI Schulze), Magellan BAADE, CN2013B-70, LCO, Chile — 0.5n
Col (PI Bauer), REM, FT2013A-24, LCO, Chile — 50h
Col (PI Schulze), Magellan BAADE, CN2013A-195, LCO, Chile — 1n
Col (PI Leloudas), VLT FORS2/HAWKI/X-shooter, 091.D-0734, Paranal, Chile — 1.5n
Col (PI Leloudas), VLT ISAAC, 290.D-5139, Paranal, Chile — 3.5h

Planetary Nebulae

- 2014 Col (PI Guzman-Ramirez), VLT UVES, 093.D-0290, Paranal, Chile — 31.2h

Novae

- 2018 Col (PI Gromadzki), VLT X-shooter, VISIR, 2100.D-5051, Paranal, Chile — 20h

Brown dwarfs

- 2017 Col (PI Caceres), NTT SOFI, 101.C-0519, La Silla, Chile — 2n
- 2014 Col (PI Boffin), VLT FORS2, 593.C-0314(A,B,C, D), Paranal, Chile — 32h in P93-P96 (2014-2016)
- 2013 Col (PI Boffin), VLT FORS2, 291.C-5004, Paranal, Chile — 4.5h
- 2006 Col (PI Guenther), NTT SOFI and 3.6m EFOSC2, 078.C-0161, La Silla, Chile — 2n
Col (PI Guenther), 2.2m MAGIC, Calar Alto, Spain — 3n

OBSERVING EXPERIENCE

VLT, Paranal, Chile	~600n (2011-2018) Day and night support astronomer, shift coordinator. Supporting UT2/UT3 night time operations (ESPRESSO, UVES, FLAMES, X-shooter, SPHERE, VISIR, VIMOS, ISAAC).
IRSF, SAAO, South Africa	14n (2012, 2013) Near-infrared photometry with SIRIUS of evolved massive stars.
La Silla, Chile	2n (2006) Spectroscopy with SOFI and EFOSC2 of brown dwarfs. 3n (2016) FEROS, GROND, WFI at the 2.2m telescope.
Calar Alto, Spain	3n (2006) Spectroscopy with MAGIC of brown dwarfs.
2m telescope, Karl Schwarzschild Observatory, Tautenburg, Germany	~14n (2006, 2007) Observations for the Tautenburg Extrasolar Planets Survey.
0.9m telescope, Großschwabhausen, Germany	1d (2004) Solar observations of the Venus-Transit.