

Curriculum Vitae

Dr. Theo ten Brummelaar

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Home

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Work

The CHARA Array of
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Date of Birth: Second of May, 1962.

Citizenship: United States & Australia.

Employment History:

- Center for High Angular Resolution Astronomy (Georgia State University):
 - March 2001 - present: Associate Director, Center for High Angular
 - May 1996 - February 2001 : Research Scientist II.
 - April 1993 - April 1996 : Postdoctoral Research Fellow.

I am an expatriate Australian physicist working in southern California as Associate director of the Center for High Angular Resolution Astronomy. In this capacity, I am chief technical architect of the CHARA-Array, the most powerful and versatile high resolution imaging observatory of its kind in the world. In addition to ultimate responsibility for all aspects of optical, mechanical, electronic and software design for the array, I also manage a team of ten scientists and engineers devoted to the support of observatory operations and maintenance, as well as working directly with graduate students on their observational programs.

The CHARA-Array currently has the largest operational baselines (the separation between the telescopes) of any instrument of its type, a feature which enables it to resolve detail on stellar targets which is unobtainable by any other instrument. The array consists of six 1-metre telescopes optically linked to form a stellar interferometer on the grounds of the Mount Wilson Observatory in the mountains near Los Angeles. Access to such unique observational parameter space has resulted in a burgeoning demand for CHARA's capabilities, and there are now active and ongoing collaborations with researchers from institutions around the world including Australia,

France, Germany and the USA. More detail on this project can be found on the department Web pages listed above.

Apart from my work on the CHARA Array I continue my research in atmospheric turbulence theory and binary stars. This includes being co-investigator and principle investigator of successful proposals to win observing time at the Starfire Optical Range in New Mexico, at the Mount Wilson Institute Adaptive Optics System , and at the AEOS facility in Hawaii. Other research areas include optical problems in stellar interferometry and the use of Zernike polynomials to model active optical systems. I have also been responsible for several graduate students in the department, working on technical and scientific aspects of the CHARA Array.

- University of Sydney: 2008-present Honorary Appointment at the School of Physics
- Partner in CHIP software company: January 1989 - January 1993. Clients included:
 - University of New South Wales: Civil Engineering Department, Road illumination simulation software.
 - University of Sydney: Music Department, MIDI Music/Studio control software.
 - Commonwealth Scientific and Industrial Research Organisation: Non-destructive test group, FTI a large gear testing instrument.
- Lamplight Theatre: 1990. Actor.
- Continuing Education Programme (Sydney University) : March 1989 - 1991.

Lecturer in a basic Astronomy course for adults entitled ‘Introduction to Astronomy’.
- Special Broadcasting Service : April 1980 - December 1992.

Part-time Radio Broadcast Operator, Producer and Sound Engineer.
- Commonwealth Scientific and Industrial Research Organisation (CSIRO), Division of Applied Physics : Experimental Scientist December 1985 - November 1988.

Working on the development of a new 3-D ultrasonic scanning and imaging system for the metal and airline industries.
- University of Sydney : 1985 and 1989

Laboratory demonstrator for physics ID.
- Anglo-Australian Observatory : A summer vacation job 1984/85.

Development of a software package for the reduction of spectropolarimetry data on a VAX 11/780 running VMS.
- Free-lance programmer : January 1982 - January 1984.

Clients included:

 - Merc Sharpe and Dome : Developing a graphics program for promotional purposes.

- E.T.P. SEMRA/OXFORD : Developing the software for their C.A.R.D. scanning electron microscope composition analysis system.
- University of New South Wales : Producing ‘Road View’, a road design and perspective package for the Civil Engineering Department.

Memberships:

- American Institute of Physics
- American Astronomical Society
- Astronomical Society of Australia
- Sydney Association for Astrophysics

Invited Presentations:

- Invited talk at Jenam meeting, Lisbon, September 2010.
- Invited talk at SPIE meeting 7734, San Diego, June 2010.
- Invited talk at SPIE meeting 7013, Marseilles, March 2008.
- Chair of United States Interferometry Consortium (USIC) splinter session at the SPIE General Meeting, Marseille, June 2008
- Chair of United States Interferometry Consortium (USIC) splinter session at the American Astronomical Society General Meeting, Austin, January 2008
- Invited talk at CSIRO Department of Radio Physics November 2007
- Invited talk and discussion panel member at NOAO Interferometry Work Group meeting, Tucson, November 2006.
- Two invited talks at the IAU General Assembly, Prague, August 2006.
- AEOS science review, Hawaii, June 2004.
- Lecturer, Michelson Interferometry Summer School, Pasadena CA, June 2003.
- Invited talk and discussion panel member at SPIE meeting 4838, Hawaii, August 2002.
- Lecturer, Michelson Interferometry Summer School, Harvard MA, June 2002.
- IAU working group meeting on Optical/IR interferometry, Observatoire de Haute Provence, France, August 2001.
- Lecturer, Michelson Interferometry Summer School, Berkeley CA, August 2000.
- NSF workshop on Optical Interferometric Imaging, Socorro NM, June 2000.
- Lecturer, Michelson Interferometry Summer School, Pasadena CA, August 1999.
- Astronomical Society of the Pacific meeting on Adaptive Optics and Stellar Interferometry **Catching the Perfect Wave**, New Mexico, June 1998.

- European Southern Observatory meeting on science with the VLTI, Garching Germany, June 1996.
- Symposium on Optical/Infrared and Adaptive Optics in honor of Charles H. Townes, Berkeley CA, 1996.
- Optical Society of America Annual General Meeting, Portland OR, 1995
- Astronomical Society of the Pacific Annual general meeting, Flagstaff AZ, 1993

Research Grant Income

- 2011 - Imaging starspots on active stars using the upgraded MIRC6 combiner on the CHARA interferometer, National Science Foundation, \$370,741
- 2011 - Adaptive Optics for the CHARA Array - Phase I - National Science Foundation - \$1,109,182
- 2009 - Fundamental Stellar Parameters from the CHARA Array - National Science Foundation - \$894,114USD
- 2008 - First Science with the CHARA Fringe Tracker: Imaging Planet-forming Disks around Young Stars - National Science Foundation - \$512,607USD
- 2008 - Multiplicity of Star and Planet Formation with the PAVO instrument - Australian Research Foundation - \$503,000 AUD
- 2007 - First Imaging of Rapid Rotators and Be Stars with Long-Baseline Interferometry - National Science Foundation - \$287,537USD
- 2007 - Multiplicity of Star and Planet Formation with the PAVO Instrument - Australian Research Council - \$503,000AUD
- 2006 - Fundamental Stellar Properties from the CHARA Array - National Science Foundation - \$824,635USD
- 2005 - The Instruments of Exoplanetary Science: A new Exhibit at the American Museum of Natural History, Michelson Science Center, \$136,000USD
- 2004 - Infrared Fringe Tracking with the CHARA Interferometer: Imaging YSO Disks and Faint Companions - National Science Foundation - \$830,000USD
- 2004 - Fundamental Stellar Parameters from the CHARA Array - National Science Foundation - \$728,000USD
- 2003 - Precision Imaging with Adaptive Optics Non-Redundant Masking Interferometry - National Science Foundation/AFOSR - \$140,000USD
- 2003 - US-France Cooperative Research: An Integrated Optics Beam Combiner for the CHARA Array - National Science Foundation - \$20,000USD
- 2002 - Atmospheric Turbulence studies using the AEOS adaptive Optics System - AFOSR - \$200,000USD

- 2000 - O Star faint companion search using the AEOS Adaptive Optics System - National Science Foundation/AFOSR - \$140,000USD
- 2000 - Spectrographic capability for the CHARA Array - National Science Foundation - \$200,000USD
- 1996 - Binary star observations at the Starfire Optical Range - National Science Foundation - \$80,000USD
- 1995 - Longitudinal dispersion correction for the CHARA Array - National Science Foundation - \$140,000USD
- 1994 - Construction of the CHARA Array - National Science Foundation - \$5.6M with matching funds from Georgia State University.

Referee Experience:

I have served as a referee for papers and proposals for the following organizations and journals:

- Keck Time Allocation Committee
- Journal of Applied Optics.
- Journal of Astronomy and Astrophysics
- Journal of the Optical Society of America.
- The Astronomical Journal
- Phillips Laboratory: Imaging Group, Kirtland Air force Base, NM.
- Smithsonian Institution.
- JPL/NASA
- NASA NSPIRES
- National Science Foundation.
- Keck Interferometer
- Space Interferometry Mission/NASA

Teaching Experience:

Since I am located on the observatory grounds in California and not on campus in Georgia I no longer do any direct teaching of GSU students. When I was on campus I lectured in adaptive optics and optical interferometry in the third year physics optics courses. While in Sydney I gave an adult education course on basic astronomy for two years running, until I moved to the United States.

I have given, and continue to give, numerous talks and presentations to various amateur, and professional, groups on astronomy and optical interferometry.

Graduate Students:

Despite being located in California, some 2500 miles from campus, I have been, and continue to be, directly involved in the supervision of graduate students and their research. The following students were supervised by me and have since graduated:

- John Hilderbrand 1996. John constructed a detector system for the CHARA Array adaptive optics system. He is now working in the telecommunications industry.
- Nils Turner 1997. Nils built the prototype beam combiner for the CHARA Array and is currently a research associate here at the CHARA Array.
- Lewis Roberts 1998. Lewis did a study of various techniques for finding and measuring faint companions to nearby stars. He is currently working for Boeing as an astronomer at the AEOS 4m telescope adaptive optics facility in Hawaii.
- David Berger 2003. David designed and built the longitudinal dispersion corrector for the CHARA Array.
- Chad Ogden 2005. Chad designed and built the prototype optical light beam combiner for the CHARA Array.
- Nic Scott 2011. Nic is working on a spectrographic mode for the FLUOR beam combiner at CHARA.

Tertiary Education:

Ph.D. Thesis:

‘Taking the Twinkle Out of the Stars: An Adaptive Wavefront Tilt Correction Servo and Preliminary Seeing Study for SUSI.’

Submitted in November 1992, accepted August 1993, awarded Feb 1994.

Honors Project:

‘A Microthermal array for measuring local contributions to seeing conditions.’

Awarded a Bachelor of Science with First Class Honors in March 1986.

Undergraduate:

University of N.S.W. Faculty of Electrical Engineering	1980
Chemistry 1A	High Distinction
Higher Physics I	High Distinction
Higher Mathematics I	High Distinction
Engineering C (Included course on Pascal)	High Distinction
Engineering A (Included course on Eng. drawing)	High Distinction
Electrical Engineering I	High Distinction
Music in Drama	Distinction
University of N.S.W. Faculty of Science	1981
Mechanics and thermal physics	High Distinction
Electromagnetism and modern physics	High Distinction
Measurement and measurement control systems	High Distinction
Laboratory	High Distinction
Multi-variable Calculus	Distinction
Complex Analysis	High Distinction
Vector Analysis	High Distinction
Mathematical methods for Differential Equations	High Distinction
Statistics SS	High Distinction
Hydrodynamics	Distinction
University of Sydney Faculty of Science	1984
Physics IIID	High Distinction
Applied Mathematics IIID	Distinction
Philosophy of Science and Technology	Distinction
University of Sydney Department of Physics	1985
Honors year in Physics (Astronomy)	Honors I

Secondary Education:

School : Heathcote High School, N.S.W. Australia.

Subjects : Maths, English, Physics, Chemistry and Engineering Science.

Aggregate : 473 (out of 500)

Academic Awards:

- Fizeau Fellowship Award 2010
- Astronomical Society of the Pacific Muhlmann Award (in conjunction with CHARA team) 2007
- University of Sydney Denison Distinguished Visitor Award 2007
- New South Wales Expatriate Scientist Award 2003.
- Sydney University Henry Chamberlain Russell Prize 1993.
- Commonwealth Postgraduate Research Award 1988, 1989, 1990 and 1991.
- The Science Foundation for Physics scholarship No. 3 1984.
- Equal top of Physics II at the University of N.S.W. 1981.
- Dux of school (Valedictorian), Heathcote High school 1979.

Computer Experience:

I have extensive experience with software development and real time control systems. Apart from my commercial work as part of the CHIP software company, and later as a private consultant, I have been involved in the development of the real-time control systems for both the Sydney University Stellar Interferometer in Australia and the Center for High Angular Resolution Astronomy Array here in the United States.

The CHARA Array control systems is based on Real Time Linux, a version of the free Linux operating system that allows real time control of hardware devices. The CHARA Array control system is a distributed system involving more than 20 CPUs with many servo systems being spread across several of these. On the mountain we also run two independent network systems, both protected by a fire-wall, with a mixture of Mac, Linux and Windows PCs.

Personal:

Outside of my academic work I have been involved in a number of non-profit organizations. I was a member of the General Assembly of Greenpeace Australia for over ten years. This is the body of some 60 people who elect board members and establish long term policy for the Australasian division of Greenpeace. I was the treasurer for Lamplight Theatre Inc. Assoc., a 'Theatre in Education' company that produced plays for primary and secondary schools. Lamplight ran for five years and employed four actors full time. In my copious free time I like to play piano, guitar and drums (although not at the same time) and I also enjoy surfing and role playing games.

Publications in Refereed Journals:

These publications have resulted in over 1000 citations.

1. “An Interferometric and Spectroscopic Analysis of the Multiple Star System HD 193322”, **ten Brummelaar T.A.**, O’Brien D.P., Mason B.D., Farrington C.D., Fullerton A.W., Gies D.R., Grundstrom E.D., Hartkopf W.I., Matson R.A., McAlister H.A., McSwain M.V., Roberts L.C., Jr, Schaefer G.H., Simón-Díaz S., Sturmann J., Sturmann L., Turner N.H., & Williams S.J., *A.J.*, in press, 2011
2. “Colder and Hotter: Interferometric Imaging of β Cassiopeiae and α Leonis”, Che X., Monnier J.D., Zhao M., Pedretti E., Thureau N., Mérand A., **ten Brummelaar T.A.**, McAlister H.A., Ridgway S.T., Turner N.H., Sturmann J., & Sturmann L., *Ap.J.*, **732**, 68, 2011.
3. “HD 181068: A Red Giant in a Triply Eclipsing Compact Hierarchical Triple System”, Derekas A., Kiss L.L., Borkovits T., Huber D., Lehmann H., Southworth J., Bedding T.R., Balam D., Hartmann M., Hrudkova M., Ireland M.J., Kovcs J., Mezö G.Y., Moór A., Niemczura E., Sarty G.E., Szabó Gy.M., Szabó R., Telting J.H., Tkachenko A., Uytterhoeven K., Benkó J.M., Bryson S.T., Maestro V., Simon A.E., Stello D., Schaefer G., Aerts C., **ten Brummelaar T.A.**, De Cat P., McAlister H.A., Maceroni C., Mérand A., Still M., Sturmann J., Sturmann L., Turner N.H., Tuthill P.G., Christensen-Dalsgaard J., Gilliland R.L., Kjeldsen H., Quintana E.V., Tenenbaum P., & Twicken J.D., *Science*, **332**, 316, 2011.
4. “The Angular Diameter and Effective Temperature of the Lithium-Rich K Giant HD 148293 from the CHARA Array”, Baines E.K., McAlister H.A., **ten Brummelaar T.A.**, Turner N.H., Sturmann J., Sturmann L., Goldinger P.J., Farrington C.D., & Ridgway S.T., *Ap.J.*, **731**, 132, 2011.
5. “Kinematics and Geometrical Study of the Be Stars 48 Per and η Per with the VEGA/CHARA Interferometer”, Delaa O., Stee Ph., Meilland A., Zorec J., Mourard D., Biério P.H., Bonneau D., Chesneau O., Clause J.M., Cruzalebes P., Perraut K., Marcotto A., Roussel A., Spang A., McAlister H.A., **ten Brummelaar T.A.**, Sturmann J., Sturmann L., Turner N.H., Farrington C., & Goldinger P.J., *A&A*, **529**, 87, 2011.
6. “Astrophysical Parameters and Habitable Zone of the Exoplanet Hosting Star GJ 581”, von Braun K., Boyajian T.S., Kane S.R., van Belle G.T., Ciardi D.R., Lopez-Morales M., McAlister H.A., Henry T.J., Jao W-C., Riedel A.R., Subasavage J.P., Schaefer G., **ten Brummelaar T.A.**, Ridgway S.T., Sturmann L., Sturmann J., Mazingue J., Turner N.H., Farrington C., Goldinger P.J., & Boden A.F., *Ap.J.*, **729**, L26, 2011.
7. “Inner Orbits in Hierarchical Triple Systems from the CHARA Array. I. V819 Her B”, D. O’Brien et al., McAlister H.A., Raghavan D., Boyajian T.S., **ten Brummelaar T.A.**, Sturmann J., Sturmann L., Turner N.H., & Ridgway S.T., *Ap.J.*, **728**, 111, 2011.
8. “Radial Structure in the TW Hya Circumstellar Disk”, Akeson R.L., Millan-Gabet R., Ciardi D.R., Boden A.F., Sargent A.I., Monnier J.D., McAlister H.A., **ten Brummelaar T.A.**, Sturmann J., Sturmann L., & Turner N.H., *Ap.J.*, **728**, 96, 2011.

9. “The Fundamental Parameters of the roAp star γ Equulei”, Perraut K., Brandão I., Mourard D., Cunha M., Bério Ph., Bonneau D., Chesneau O., Clausse J.M., Delaa O., Marcotto A., Roussel A., Spang A., Stee Ph., Tallon-Bosc I., McAlister H.A., **ten Brummelaar T.A.**, Sturmman J., Sturmman L., Turner N., Farrington C., & Goldinger P.J., *A&A*, **526**, A89, 2011.
10. “The Radius and Mass of the Close Solar Twin 18 Scorpii Derived from Asteroseismology and Interferometry”, Bazot M., Ireland M.J., Huber D., Bedding T.R., Broomhall A.M., Campante T.L., Carfantan H., Chaplin W.J., Elsworth Y., Meléndez J., Petit P., Théado S., Van Grootel V., Arentoft T., Asplund T., Castro M., Christensen-Dalsgaard J., do Nascimento Jr J.D., Dintrans D., Dumusque X., Kjeldsen H., McAlister H.A., Metcalfe T.S., Monteiro M.J., Santos N.C., Sousa S., Sturmman J., Sturmman L., **ten Brummelaar T.A.**, Turner N.H., & Vauclair S., *A&A*, **526**, L4, 2011.
11. “An investigation of the close environment of β Cephei with the VEGA/CHARA interferometer”, Nardetto, N., Mourard, D., Tallon-Bosc, I., Tallon, M., Berio, P., Chapelier, E., Bonneau, D., Chesneau, O., Mathias, P., Perraut, K., Stee, P., Blazit, A., Clausse, J.M., Delaa, O., Marcotto, A., Millour, F., Roussel, A., Spang, A., McAlister, H.A., **ten Brummelaar, T.A.**, Sturmman, J., Sturmman, L., Turner, N.H., Farrington, C.F., and Goldfinger, P.J., *A&A*, **525**, A67, 2011
12. “The fundamental parameters of the roAp star γ Equulei”, Perraut K., Brandao I., Mourard D., Cunha M., Bério Ph., Bonneau D., Chesneau O., Clausse J.M., Delaa O., Marcotto A., Roussel A., Spang A., Stee Ph., Tallon-Bosc I., McAlister H.A., **ten Brummelaar T.A.**, Sturmman J., Sturmman L., Turner N., Farrington C. & Goldfinger P.J., *A&A*, In Press, 2010
13. “Multi-epoch Near-infrared Interferometry of the Spatially Resolved Disk around the Be Star ξ Tau”, Schaefer G.H., Gies D.R., Monnier J.D., Richardson N.D., Touhami Y., Zhao M., Che X., Pedretti E., Thureau N., **ten Brummelaar T.A.**, McAlister H.A., Ridgway S.T., Sturmman J., Sturmman L., Turner N.H., Farrington C.D. & Goldfinger P.J., *A.J.*, **140**, 1838, 2010
14. “Spectro-interferometry of the Be Star δ Sco: Near-infrared Continuum and Gas Emission Region Sizes in 2007”, Millan-Gabet R., Monnier J.D., Touhami Y., Gies D., Hesselbach E., Pedretti E., Thureau N., Zhao M., **ten Brummelaar T.A.** & the CHARA Group, *Ap.J.*, **723**, 544, 2010
15. “Time, spatial, and spectral resolution of the H α line-formation region of Deneb and Rigel with the VEGA/CHARA interferometer”, Chesneau O., Dessart L., Mourard D., Bério Ph., Buil Ch., Bonneau D., Borges Fernandes M., Clausse J. M., Delaa O., Marcotto, A., Meilland A., Millour F., Nardetto N., Perraut K., Roussel A., Spang A., Stee P., Tallon-Bosc I., McAlister H.A., **ten Brummelaar T.A.**, Sturmman J., Sturmman L., Turner N., Farrington C. & Goldfinger P.J., *A&A*, **521A**, 5, 2010
16. “A Survey of Stellar Families: Multiplicity of Solar-type Stars”, Raghavan D., McAlister H.A., Henry T.J., Latham D.W., Marcy G.W., Mason B.D., Gies D.R., White R.J. & **ten Brummelaar T.A.**, *Ap.J.S*, **190**, 1, 2010
17. “The Membership and Distance of the Open Cluster Collinder 419”, Roberts L.C., Gies D.R., Parks J.R., Grundstrom E.D., McSwain M V., Berger D.H., Mason B.D., **ten Brummelaar T.A.** & Turner N.H., *A.J.*, **140**, 744, 2010

18. “Ruling Out Possible Secondary Stars to Exoplanet Host Stars Using the CHARA Array”, Baines E.K., McAlister H.A., **ten Brummelaar T.A.**, Turner N.H., Sturmman J., Sturmman L., Goldfinger P.J., Farrington C.D. & Ridgway S.T., *A.J.*, **140**, 167B, 2010
19. “Interferometric radius and limb darkening of the asteroseismic red giant η Serpentis with the CHARA Array”, Mérand A., Kervella P., Barban C., Josselin E., **ten Brummelaar T.A.**, McAlister H.A., Coudé Du Foresto V., Ridgway S.T., Turner N., Sturmman J., Sturmman L., Goldfinger P.J. & Farrington C., *A&A*, **517A**, 64, 2010
20. “Separated Fringe Packet Observations with the CHARA Array. I. Methods and New Orbits for γ Draconis, HD 184467, and HD 198084”, Farrington C.D., **ten Brummelaar T.A.**, Mason B.D., Hartkopf W.I., McAlister H.A., Raghavan D., Turner N.H., Sturmman L., Sturmman J. & Ridgway S.T., *A.J.*, **139**, 2308, 2010
21. “The H α line forming region of AB Aurigae spatially resolved at sub-AU with the VEGA/CHARA spectro-interferometer”, Rousselet-Perraut K., Benisty M., Mourard D., Rajabi S., Bacciotti F., Brio Ph., Bonneau D., Chesneau O., Clause J. M., Delaa O., Marcotto A., Roussel A., Spang A., Stee Ph., Tallon-Bosc I., McAlister H.A., **ten Brummelaar T.A.**, Sturmman J., Sturmman L., Turner N., Farrington C. & Goldfinger P. J., *A&A*, **516**, 1R, 2010
22. “Infrared images of the transiting disk in the Aurigae system”, Kloppenborg B., Stencl R., Monnier J.D., Schaefer G., Zhao M., Baron F., McAlister H.A., **ten Brummelaar T.A.**, Che X., Farrington C., Pedretti E., Sallave-Goldfinger P.J., Sturmman J., Sturmman L., Thureau N., Turner N., Carroll S.M. *Nature*, **464**, 870, 2010
23. “The radius and effective temperature of the binary Ap star γ CrB from CHARA/FLUOR and VLT/NACO observations”, Bruntt H., Kervella P., Mrand A., Brando I. M., Bedding T. R., **ten Brummelaar T.A.**, Coudé Du Foresto V., Cunha M.S., Farrington C., Goldfinger P.J., Kiss L.L., McAlister H. A., Ridgway S.T., Sturmman J., Sturmman L., Turner N., & Tuthill, P. G. *A&A*, **512**, 55B, 2010
24. “Angular Diameters and Effective Temperatures of 25 K Giant Stars from the CHARA Array”, Baines E.K., Dollinger M.P., Cusano F., Guenther E.W., Hatzes A.P., McAlister H.A., **ten Brummelaar T.A.**, Turner N.H., Sturmman J., Sturmman L., Goldfinger P.J., Farrington C.D. & Ridgway S.T., *Ap.J.*, **710**, 1365, 2010
25. “VEGA: Visible spEctroGraph and polArimeter for the CHARA array: principle and performance”, Mourard D., Clause J. M., Marcotto A., Perraut K., Tallon-Bosc I., Bério Ph., Blazit A., Bonneau D., Bosio S., Bresson Y., Chesneau O., Delaa O., Hnault F., Hughes Y., Lagarde S., Merlin G., Roussel A., Spang A., Stee Ph., Tallon M., Antonelli P., Foy R., Kervella P., Petrov R., Thiebaut E., Vakili F., McAlister H., ten Brummelaar T., Sturmman J., Sturmman L., Turner N., Farrington C. & Goldfinger P. J., *A&A*, **508**, 1073, 2010
26. “Interferometric Observations of the Hierarchical Triple System Algol”, Csizmadia Sz., Borkovits T., Paragi Zs., Abraham P., Szabados L., Mosoni L., Sturmman L., Sturmman J., Farrington C., Mc Alister H.A., **ten Brummelaar T.A.**, Turner N. H. & Klagyivik P, *A.J.*, **705**, 436, 2009

27. “Imaging with the CHARA interferometer”, Pedretti, E., Monnier, J.D., ten Brummelaar, T.A., and Thureau, N.D., *New Astronomy Reviews*, **53**, 353, 2009
28. “Imaging and Modeling Rapidly Rotating Stars: Cephei and α Ophiuchi” Zhao M., Monnier J.D., Pedretti E., Thureau N., and A.M., **ten Brummelaar T.A.**, McAlister H.A., Ridgway S.T., Turner N.H., Sturmman J., Sturmman L. & Goldfinger P.J., *Ap.J.*, **701**, 209, 2009
29. “Eleven Exoplanet Host Star Angular Diameters from the Chara Array”, Baines Ellyn K., McAlister H.A., **ten Brummelaar T.A.**, Sturmman J., Sturmman L., Turner N.H., Ridgway S.T., *Ap.J.*, **701**, 154, 2009
30. “Asteroseismology and interferometry of the red giant star epsilon Ophiuchi”, Mazumdar A., and A.M., Demarque P., Kervella P., Barban C., Baudin F., Coude du Foresto V., Farrington C., Goldfinger P.J., Goupil M.J., Josselin E., Kuschnig R., McAlister H.A., Matthews J., Ridgway S.T., Sturmman J., Sturmman L., **ten Brummelaar T.A.**, & Turner N.H., *A&A*, **503**, 521, 2009
31. “Dust in the Inner Regions of Debris Disks Around A Stars”, Akeson R.L., Ciardi D.R., Millan-Gabet R., Di Folco E., Monnier J.D., Beichman C.A., Absil O., Aufdenberg J., McAlister H.A., **ten Brummelaar T.A.**, Sturmman J., Sturmman L., & Turner N.H., *Ap.J.*, **691**, 1896, 2009.
32. “Angular Diameters of the Hyades Giants Measured with the CHARA Array”, Boyajian T.S., McAlister H.A., Cantrell J.R., Gies D.R., **ten Brummelaar T.A.**, Farrington C., Goldfinger P.J., Sturmman L., Sturmman J., Turner N.H. & Ridgway S.T., *Ap.J.*, **691**, 1243, 2009.
33. “The Visual Orbit of the 1.1-day Spectroscopic Binary σ 2 Coronae Borealis from Interferometry with the CHARA Array”, Raghavan D., McAlister H.A., Torres G., Latham D.W., Mason B.D., Boyajian T.S., Baines E.K., Williams S.T., **ten Brummelaar T.A.**, Farrington C.D., Ridgway S.T., Sturmman L, Sturmman J. & Turner N.H., *Ap.J.*, bf 690, 394, 2009.
34. “Adaptive Optics Photometry and Astrometry of Binary Stars. III. A Faint Companion Search of O-Star Systems”, Turner N.H., **ten Brummelaar T.A.**, Roberts L.C., Mason B.D., Hartkopf W.I. & Gies D.R., *Ap.J.*, **136**, 554, 2008.
35. “A Tale of Two Herbig Ae Stars - MWC 275 and AB Aurigae: Comprehensive Models for SED and Interferometry”, Tannirkulam A., Monnier J.D., Harries T.J., Millan-Gabet R., Zhu Z., Pedretti E., Ireland M., Tuthill P., **ten Brummelaar T.A.**, McAlister H.A., Farrington C., Goldfinger P.J., Sturmman J., Sturmman L. & Turner N.H., *Ap.J.*, **689**, 513, 2008.
36. “First Resolved Images of the Eclipsing and Interacting Binary β i Lyrae”, Zhao, M., Gies, D., Monnier, J. D., Thureau, N., Pedretti, E., Baron, F., Merand, A., ten Brummelaar, T., McAlister, H., Ridgway, S. T., Turner, N., Sturmman, J., Sturmman, L., Farrington, C., Goldfinger, P. J., *Ap.J.*, **684L**, 95Z, 2008
37. “A Near-Infrared Interferometric Survey of Debris Disc Stars. II. CHARA/FLUOR Observations of Six Early-Type Dwarfs”, Absil O, Di Folco E, Merand A, Augereau C.J.,

- Coude du Foresto V, Defrere D., Kervella P., Aufdenberg J.P., Desort M., Ehrenreich D., Lagrange A.M., Montagnier G., Olofsson J., **ten Brummelaar T.A.**, McAlister H.A., Sturmman J., Sturmman L. & Turner N.H., *A&A*, **487**, 1041, 2008.
38. “The Radii of the Nearby K5V and K7V stars 61 Cyg A & B - CHARA/FLUOR Interferometry and CESAM2k Modeling”, Kervella P., Merand A., Pichon B., Thevenin F., Heiter H., Bigot L., **ten Brummelaar T.A.**, McAlister H.A., Ridgway S.T., Turner N.H., Sturmman J., Sturmman L., Goldfinger P.J. & Farrington C., *A&A*, **488**, 667, 2008.
 39. “The Search for Stellar Companions to Exoplanet Host Stars Using the CHARA Array, Baines E.K., McAlister H.A, **ten Brummelaar T.A.**, Turner N.H., Sturmman J., Sturmman L &, Ridgway S.T., *Ap.J.* , **682**, 577, 2008.
 40. “CHARA Array Measurements of the Angular Diameters of Exoplanet Host Stars”, Baines E.K., McAlister H.A., **ten Brummelaar T.A.**, Turner N.H., Sturmman J, Sturmman L, Goldfinger P.J, & Ridgway S.T., *Ap.J.*, **680**, 728, 2008.
 41. “Strong Near-Infrared Emission Interior to the Dust Sublimation Radius of Young Stellar Objects MWC 275 and AB Aurigae”, Tannirkulam A., Monnier J.D., Millan-Gabet R., Harries T.J., **ten Brummelaar T.A.**, McAlister H.A., Turner N.H., Sturmman J. & Sturmman L., *Ap.J.* , **677**, L51-54, 2008.
 42. “Angular Diameters of the G Subdwarf μ Cassiopeiae A and the K Dwarfs δ Draconis and HD 10780 from Interferometric Measurements with the CHARA Array”, Boyajian T.S, McAlister H.A, Baines E.K., Farrington C., Gies D.R., Henry T.J., Jao W.J., O'Brien D., Raghavan D., Touhami Y., **ten Brummelaar T.A.**, Goldinger P.J., Sturmman L., Sturmman J., and Turner N.H., *Ap.J.*, **683**, 424, 2007
 43. “A near-IR interferometric survey of debris-disk stars I: Probing the hot dust content around Epsilon Eri and Tau Ceti with CHARA/FLUOR”, Absil O., Augereau J.-C., Mérand A., Coudé du Foresto V., Thévenin F., Defrère D., Kervella P., **ten Brummelaar T.A.**, McAlister H.A., Ridgway S.T., Sturmman J., Sturmman L. and Turner N.H., *A&A*, **475**, 243., 2007
 44. “Imaging the Surface of Altair”, Monnier J., Zhao M, Pedretti E. , Thureau N., Ireland M., Tannirkulam A. , Muirhead P., Berger J.-P., Millan-Gabet R., Van Belle G. , **ten Brummelaar T.A.**, McAlister H., Ridgway S., Turner N., Sturmman L., Sturmman J. and Berger D., *Science*, **317**, 2007
 45. “Direct Measurement of the Radius and Density of the Transiting Exoplanet HD 189733B with the CHARA Array” Baines E.K., van Belle G.T. **ten Brummelaar T.A.**, McAlister H.A., Swain M., Turner N.H., Sturmman L. and Sturmman J., *Ap.J.*, **661**, L195, 2007
 46. “Extended Envelopes around Galactic Cepheids III. Y Oph and alpha Per from Near-Infrared Interferometry with CHARA/FLUOR” Mérand A., Aufdenberg J.P., Kervella P., Coudé du Foresto V., **ten Brummelaar T.A.**, McAlister H.A., Sturmman L., Sturmman J., and Turner N.H., *Ap.J.*, **664**, 1093, 2007
 47. “The Angular Diameter of λ Boötis” David R. Ciardi D.R., van Belle G.T., Boden A.F., **ten Brummelaar T.A.**, McAlister H.A., Bagnuolo W.G. Jr., Goldfinger P.J., Sturmman J., Sturmman L., Turner N.H., Berger D.H., Thompson R.R. and Ridgway S.T., , *Ap.J.*, **659**, 1623, 2007

48. “Adaptive Optics Photometry and Astrometry of Binary Stars. II. A Multiplicity Survey of B Stars” Roberts L.C. Jr., Turner N.H. and **ten Brummelaar T.A.**, *A.J.*, **133**, 545-552, 2007
49. “CHARA Array K'-Band Measurements of the Angular Dimensions of Be Star Disks” Gies D.R., Bagnuolo W.G. Jr., Baines E.K., **ten Brummelaar, T.A.**, Farrington C.D., Goldfinger P.J., Grundstrom E.D., Huang W., McAlister H.A., Mérand A., Sturmman J., Sturmman L., Touhami Y., Turner N.H., Wingert D.W., Berger D.H., McSwain M.V., Aufdenberg J.P., Ridgway S.T., Cochran A.L., Lester D.F., Sterling N.C., Bjorkman J.E., Bjorkman K.S., and Koubsk P., *Ap.J.*, **654**, 527-543, 2007
50. “Extended envelopes around Galactic Cepheids. II. Polaris and Cephei from near-infrared interferometry with CHARA/FLUOR” Mérand A., Kervella P., Coudé du Foresto V., Perrin G., Ridgway S.T., Aufdenberg J.P., **ten Brummelaar T.A.**, McAlister H.A., Sturmman L., Sturmman J., Turner N.H., Berger D.H. *A&A*, **453**, 155-162, 2006
51. “First Results from the CHARA Array. VII. Long-Baseline Interferometric Measurements of Vega Consistent with a Pole-On, Rapidly Rotating Star” Aufdenberg J.P., Mérand A., Coudé du Foresto V., Absil O., Di Folco E., Kervella P., Ridgway S.T., Berger D.H., **ten Brummelaar T.A.**, McAlister H.A., Sturmman J., Sturmman L., Turner N.H., *Ap.J.*, bf 645, 664-675, 2006
52. “Circumstellar material in the Vega inner system revealed by CHARA/FLUOR” Absil O., di Folco E., Mérand A., Augereau J.-C., Coudé Du Foresto V., Aufdenberg J.P., Kervella P., Ridgway S.T., Berger D.H., **ten Brummelaar T.A.**, Sturmman J., Sturmman L., Turner N.H., McAlister H.A. *A&A*, **452**, 237-244, 2006
53. “First Results from the CHARA Array. V. Binary Star Astrometry: The Case of 12 Persei” Bagnuolo W.G. Jr., Taylor S.F., McAlister H.A., **ten Brummelaar T.A.**, Gies D.R., Ridgway S.T., Sturmman J., Sturmman L., Turner N.H., Berger D.H., Gudehus D., *A.J.*, **131**, 2695-2699, 2006
54. “First Results from the CHARA Array. IV. The Interferometric Radii of Low-Mass Stars” Berger D.H., Gies D.R., McAlister H.A., **ten Brummelaar T.A.**, Henry T.J., Sturmman J., Sturmman L., Turner N.H., Ridgway S.T., Aufdenberg J.P., Mérand A., *Ap.J.*, **644**, 475-483, 2006
55. “First Results from the CHARA Array. III. Oblateness, Rotational Velocity, and Gravity Darkening of Alderamin” van Belle G.T., Ciardi D.R., **ten Brummelaar T.A.**, McAlister H.A., Ridgway S.T., Berger D.H., Goldfinger P.J., Sturmman J., Sturmman L., Turner N.H., Boden A.F., Thompson R.R., and Coyne J., *Ap.J.*, **637**, 494-505, 2006
56. “Adaptive Optics Photometry and Astrometry of Binary Stars” Roberts L.C. Jr., Turner N.H., Bradford L.W, **ten Brummelaar T.A.**, Oppenheimer B.R., Kuhn J.R., Whitman K, Perrin M.D., Graham J.R., *A.J.*, **130**, 2262-2271, 2005
57. “The projection factor of Cephei. A calibration of the Baade-Wesselink method using the CHARA Array” Mérand A., Kervella P., Coudé Du Foresto V., Ridgway S.T., Aufdenberg J.P., **ten Brummelaar T.A.**, Berger D.H., Sturmman J., Sturmman L., Turner N.H., McAlister H.A., *A.&A.*, **438**, L9-L12, 2005

58. "First Results from the CHARA Array. II. A Description of the Instrument" **ten Brummelaar T.A.**, McAlister H.A., Ridgway S.T., Bagnuolo W.G. Jr., Turner N.H., Sturmman L., Sturmman J., Berger D.H., Ogden C.E., Cadman R., Hartkopf W.I., Hopper C.H., Shure M.A., *sl Ap.J.*, **628**, 453-465, 2005
59. "First Results from the CHARA Array. I. An Interferometric and Spectroscopic Study of the Fast Rotator Leonis (Regulus)" McAlister H.A., **ten Brummelaar T.A.**, Gies D.R., Huang W., Bagnuolo W.G. Jr., Shure M.A., Sturmman J., Sturmman L., Turner N.H., Taylor S.F., Berger D.H., Baines E.K., Grundstrom E., Ogden C., Ridgway S.T., van Belle G. *Ap.J.*, **628** 439-452, 2005
60. "Search for Faint Companions to Nearby Solar-like Stars using the Adaptive Optics System at Mount Wilson Observatory", Turner N.H., **ten Brummelaar T.A.** , McAlister H.A., Mason B.D., Hartkopf W.I., and Roberts L.C. Jr., *A.J.*, **121**, 3254-3258, 2001
61. "Binary Star Differential Photometry Using the Adaptive Optics System at Mount Wilson Observatory"
ten Brummelaar T.A., Mason B.D., McAlister H.A., Roberts L.C. Jr., Turner N.H., Hartkopf W.I., Bagnuolo W.G. Jr. *A.J.*, **119**, 2403, 2000
62. "ICCD Speckle Observations of Binary Stars. XXIII. Measurements during 1982-1997 from Six Telescopes, with 14 New Orbits", Hartkopf W.I., Mason B.D., McAlister H.A., Roberts L.C. Jr., Turner N.H., **ten Brummelaar T.A.**, Prieto C.M., Ling J.F., and Franz O.G., *A.J.*, **119**, 3084, 2000
63. "ICCD Speckle Observations of Binary Stars. XXII. A Survey of Wolf-Rayet Stars for Close Visual Companions", Hartkopf W.I., Mason B.D., Douglass G.G., **ten Brummelaar T.A.**, McAlister H.A., Moffat A.F.J., Shara M.M., and Wallace D.J., *A.J.*, **118**, 509-514, 1999
64. "The Sydney University Stellar Interferometer I: The Instrument", Davis J., W.J. Tango, Booth A.J., Minard R.A., and **ten Brummelaar T.A.**, *MNRAS*, **303**, 773-791, 1999
65. "Adaptive Optics Observations of Arcturus using the Mount Wilson 100-inch Telescope", Turner N.H., **ten Brummelaar T.A.**, and Mason B.D., *PASP*, **111**. 556-558, 1999
66. "Speckle Interferometry of New and Problem Hipparcos Binaries", Mason B.D., Hartkopf W.I., Barry D.J., Germain M.E., Douglass G.G., Worley C.E., Wyoff G.L., **ten Brummelaar T.A.**, and Franz O.G., *A.J.*, **117**, 1890-1904, 1999
67. "A Multiplicity Survey of Chromospherically Active and Inactive Stars", Mason B.D., Henry T.J., Hartkopf W.I., **ten Brummelaar T.A.**, and Soderblom D.R., *Ap.J.*, **116**, 2975-2983, 1998
68. "ICCD Speckle Observations of Binary Stars.XIX – an astrometric/spectroscopic survey of O stars"
Mason B.D., Gies D.R., Hartkopf W.I., Bagnuolo W.G., **ten Brummelaar T.A.**, McAlister H.A. *A.J.*, **115**, 821, 1997

69. "ICCD Speckle Observations of Binary Stars. XVIII. An Investigation of Be Stars", Mason B.D., **ten Brummelaar T.A.**, Gies D.R., Hartkopf W.I., and Thaller M.L., *Ap.J.*, **114**, 2112-2116, 1997
70. "ICCD Speckle Observation of Binary Stars. XVII. Measurements During 1993-1995 from the Mount Wilson 2.5-m Telescope", Hartkopf W.I., McAlister H.A., Mason B.D., **ten Brummelaar T.A.**, Roberts Jr. L.C., Turner N.H. and Wilson J.W., *Ap.J.*, **114**, 1639-1656, 1997
71. "Correlation measurement and group delay tracking in optical stellar interferometry with a noisy detector"
ten Brummelaar T.A., *MNRAS*, **285**, 135, 1997
72. "Modeling atmospheric wave aberrations and astronomical instrumentation using the polynomials of Zernike", **ten Brummelaar T.A.**, *Opt.Comm.*, **132**, 329-342, 1996
73. "Differential Binary Star Photometry Using the Adaptive Optics System at Starfire Optical Range"
ten Brummelaar T.A., Mason B.D., Bagnuolo W.G. Jr., Hartkopf W.I., McAlister H.A., Turner N.H. *A.J.*, **112**, 1180, 1996
74. "The contribution of high order Zernike modes to wave front tilt", **ten Brummelaar T.A.**, *Opt.Comm.*, **115**, 417-424, 1995
75. "Differential path considerations in optical stellar interferometry"
ten Brummelaar T.A., *App.Opt.*, **34**, 2214, 1995
76. "Strehl ratio and coherence loss in long baseline stellar interferometry", **ten Brummelaar T.A.**, Ridgway S.T., and Bagnuolo Jr. W.G., *Opt.Let.*, **20**, 521-523, 1995
77. "Taking the twinkle out of the stars: An adaptive wave front tilt correction servo and preliminary seeing study for SUSI", **ten Brummelaar, T.A.**, *P.A.S.P.*, **106**, 915-915, 1995 and *P.A.S.A.*, **12**, 275-275, 1994
78. "A wave front tilt correction servo for the Sydney University Stellar Interferometer", **ten Brummelaar T.A.**, and Tango W.J., *Exp.Ast.*, **4**, 297-315, 1994

Conference Proceedings:

1. Boyajian T.S, von Braun K, van Belle G, ten Brummelaar T.A., Ciardi D., Henry T, Lopez-Morales M, McAlister H.A., Ridgway S.T., Farrington C., Goldfinger P.J., Sturmann L., Sturmann J. & Turner N.H., **Fundamental Properties of Cool Stars with Interferometry**, Proceedings of Cools Stars 16 Workshop, Seattle, 2010
2. ten Brummelaar T.A., McAlister H.A., Ridgway S.T., Gies D.R., Sturmann J., Sturmann L., Turner N.H., Schaefer G.H., Farrington C.D. & Goldfinger P.J. **An update on the CHARA Array**, SPIE **7734**, 2010
3. Sturmann L., Sturmann J., ten Brummelaar T.A. & McAlister H.A. **Modified telescope alignment procedure for improving the beam quality of the CHARA Telescopes** SPIE **7734**, 2010

4. Sturm J., ten Brummelaar T.A., Sturm Laszlo & McAlister H.A., **Dual three-way infrared beam combiner at the CHARA Array**. SPIE **7734**, 2010
5. Zhao Ming, Monnier J.D., Che Xiao, ten Brummelaar T.A., Pedretti E. & Thureau N.D., **MIRC closure phase studies for high precision measurements**, SPIE **7734**, 2010
6. Monnier J.D., Anderson M., Baron F., Berger D.H., Che X., Eckhause T., Kraus S., Pedretti E., Thureau N., Millan-Gabet R., ten Brummelaar T.A., Irwin P. & Zhao M., **MI-6: Michigan interferometry with six telescopes** SPIE **7734**, 2010
7. Mourard D., Tallon M., B erio Ph., Bonneau D., Chesneau O., Clausse J.M., Delaa O., Nardetto N., Perraut K., Spang A., Stee Ph., Tallon-Bosc I., McAlister H.A., ten Brummelaar T.A., Sturm J., Sturm L., Turner N., Farrington C. & Goldfinger P.J., **Performances and first science results with the VEGA/CHARA visible instrument** SPIE **7734**, 2010
8. Robertson J.G., Ireland M.J., Tango W.J., Davis J., Tuthill P.G., Jacob A.P., Kok Y., ten Brummelaar T.A., **Instrumental developments for the Sydney University Stellar Interferometer**, SPIE **7734**, 2010
9. Kiss L.L., Monnier J.D., Bedding T.R., Tuthill P., Zhao M., Ireland M.J. & ten Brummelaar T.A., **CHARA/MIRC Interferometry of Red Supergiants: Diameters, Effective Temperatures, and Surface Features**, Astronomical Society of the Pacific Conference Series, **425**, 2010
10. Gies D., Boyajian T., Farrington C., McAlister H.A., O'Brien D., Richardson N., Raghavan D., Schaefer G., ten Brummelaar T.A., Touhami Y. & Turner, N. **Massive Star Studies with the CHARA Array**, Revista Mexicana de Astronomia y Astrofisica , Vol 46#2, 2010
11. Robertson J.G., Davis J., Ireland M.J., Tuthill P.G., Tango W.J., Jacob A.P., North J.R. & ten Brummelaar T.A., **Interferometric Studies of Hot Stars at Sydney University**, Revista Mexicana de Astronomia y Astrofisica , Vol 46#2, 2010
12. Zhao M., Monnier J.D., Pedretti E., Thureau N., M erand A., ten Brummelaar T.A., McAlister H.A., Ridgway S.T., Turner N.H., Sturm J., Sturm L., Goldfinger P.J. & Farrington C. **Imaging and Modeling Rapid Rotators: α Cep and α Oph**, Revista Mexicana de Astronomia y Astrofisica , Vol 46#2, 2010
13. Schaefer G.H., Gies D.R., Monnier J.D., Richardson N., Touhami Y., Zhao M., Pedretti E., Thureau N., McAlister H.A., Ridgway S.T., Sturm J., Sturm L., ten Brummelaar T.A. & Turner N.H. **Modeling the Disk of ξ Tau Using the CHARA Array**, Revista Mexicana de Astronomia y Astrofisica , Vol 46#2, 2010
14. Touhami Y., Gies D., Boyajian T., Farrington C., McAlister, H., O'Brien D., Richardson N., Raghavan D., Schaefer G., ten Brummelaar T.A. & Turner N., **Observations and Analysis of Be Star Circumstellar Environments with the Long Baseline CHARA Array Interferometer**, Revista Mexicana de Astronomia y Astrofisica , Vol 46#2, 2010

15. Gies D.R., Roberts L.C. Jr., Mason B.D., Grundstrom E.D., McSwain M.V., Berger D.H., Parks J.R., ten Brummelaar T.A. & Turner N.H. "The Membership and Distance of the Open Cluster Collinder 419", American Astronomical Society #215, Washington D.C., 2010
16. Boyajian T.S., von Braun K., van Belle G., ten Brummelaar T.A., Ciardi D., Farrington C., Goldfinger P.J., López-Morales M., McAlister H.A., Ridgway S.T., Sturmann L., Sturmann J. & Turner N.H., **Fundamental Properties of Low Mass Stars**, American Astronomical Society #215, Washington D.C., 2010
17. Farrington C.D., ten Brummelaar T.A., Mason B.D., Hartkopf W.I., McAlister H.A., Raghavan D., Turner N.H., Sturmann L., Sturmann J. & Ridgway S.T. **Separated Fringe Packet Observations with the CHARA Array**, American Astronomical Society #215, Washington D.C., 2010
18. Baines E.K., McAlister H.A., ten Brummelaar T.A., Sturmann J., Sturmann L., Turner N.H., Goldfinger P.J., Farrington C.D., Ridgway S.T., Doellinger M.P., Cusano F., Guenther E.W. & Hatzes A.P., **Angular Diameters and Effective Temperatures for Eleven Exoplanet Host Stars and Twenty-five K Giant Stars from the CHARA Array**, American Astronomical Society #215, Washington D.C., 2010
19. Borkovits T., Csizmadia Sz., Paragi Zs., Sturmann L., Sturmann J., Farrington C., McAlister H.A., ten Brummelaar T.A. & Turner N.H. **Interferometric Observations of Algol**, Proceedings Binaries: key to comprehension of the Universe, 2009
20. T. ten Brummelaar, N.H. Turner, L.C. Roberts, Jr., W.I. Hartkopf, & B.D. Mason **Astrometry and Photometry of Binary Exoplanet Host Stars**, American Astronomical Society #214, Pasadena, 2009
21. Akeson, Rachel L., Armstrong, J. T., Creech-Eakman, M., Hinz, P., Hutter, D., McAlister, H., Ragland, S., Ridgway, S., ten Brummelaar, T., Townes, C., Wizinowich, P. **Science Highlights and Future Plans of Ground-based Optical/infrared Interferometry**, American Astronomical Society #214, Pasadena, 2009
22. Raghavan, Deepak, McAlister, H. A., Henry, T. J., ten Brummelaar, T. A., O'Brien, D. **Astrometry At The CHARA Array — Narrow-angle Science Of Binary Stars**, American Astronomical Society #214, Pasadena, 2009
23. Zhao M, Monnier J.D., Pedretti E., Thureau N., Merand A, ten Brummelaar T.A., McAlister H.A., Ridgway S.T., Turner N.H., Sturmann J., Sturmann L., Goldfinger P.J. & Farrington C., **Imaging and modeling rapid rotators: α Cep & α Oph** The Interferometric view on Hot Stars, Vina del Mar, March 2009.
24. Robertson J.G., Davis J., Ireland M. J., Tuthill P. G., Tango W. J., Jacob A.P., North J.R., ten Brummelaar T.A., **Interferometric Studies of Hot Stars at Sydney University**, The Interferometric view on Hot Stars, Vina del Mar, March 2009.
25. D. Gies, T. Boyajian, C. Farrington, H. McAlister, D. O'Brien, N. Richardson, D. Raghavan, G. Schaefer, T. ten Brummelaar, Y. Touhami, and N. Turner, **Massive Star Studies with the CHARA Array**, The Interferometric view on Hot Stars, Vina del Mar, March 2009.

26. Y. Touhami, D. Gies, T. Boyajian, C. Farrington, H. McAlister, D. O'Brien, N. Richardson, D. Raghavan, G. Schaefer, T. tenBrummelaar, and N. Turner **Observations and Analysis of Be Star Circumstellar Environments with the long baseline CHARA Array Interferometer** The Interferometric view on Hot Stars, Vina del Mar, March 2009.
27. G. H. Schaefer, D. R. Gies, J. D. Monnier, M. Zhao, N. Richardson, Y. Touhami, E. Pedretti, N. Thureau, H. A. McAlister, S. T. Ridgway, J. Sturmann, L. Sturmann, T. tenBrummelaar, and N. H. Turner **Modeling the Disk of ζ Tau using the CHARA Array**, The Interferometric view on Hot Stars, Vina del Mar, March 2009.
28. Armstrong, J. Thomas, Creech-Eakman, M. J., Akeson, R. L., Bakker, E. J., Hutter, D. J., McAlister, H. A., tenBrummelaar, T., Townes, C. H. **Highlights and Future Plans of Ground-based Optical/infrared Interferometry**, American Astronomical Society #213, San Diego, 2009
29. Aufdenberg, Jason P., Ireland, M., Mrand, A., Monnier, J., Zhao, M., Pedretti, E., Thureau, N., Ridgway, S., Coud du Foresto, V., Bagnuolo, W., Gies, D., tenBrummelaar, T., McAlister, H., Sturmann, J., Sturmann, L., Turner, N., Jacob, A., Riddle, R., Shah, B. **The Interferometric Orbit and Fundamental Parameters for Spica from the CHARA and SUSI Arrays**, American Astronomical Society #213, San Diego, 2009
30. Schaefer, Gail, Gies, D. R., Baines, E., Boyajian, T., Coud du Foresto, V., Farrington, C. D., Goldfinger, P. J., Grundstrom, E., McAlister, H. A., Mrand, A., Monnier, J. D., Pedretti, E., Richardson, N., Ridgway, S. T., Sturmann, J., Sturmann, L., tenBrummelaar, T., Thureau, N., Touhami, Y., Turner, N. H., Zhao, M. **Imaging the Disk of Zeta Tau Using the CHARA Array**, American Astronomical Society #213, San Diego, 2009
31. Monnier, John D., Zhao, M., tenBrummelaar, T., Pedretti, E., Thureau, N., Berger, D **Toward Direct Detection Of Hot Jupiters Using The Chara Array**, American Astronomical Society #213, San Diego, 2009
32. Ridgway, Stephen T., McAlister, Harold A., tenBrummelaar, Theo, Merand, Antoine, Sturmann, Judit, Sturmann, Laszlo, Turner, Nils **Adaptive optics for the CHARA Array**, SPIE **7013**, 2008
33. Ireland, Michael J., Mrand, Antoine, tenBrummelaar, Theo A., Tuthill, Peter G., Schaefer, Gail H., Turner, Nils H., Sturmann, Judit, Sturmann, Laszlo, McAlister, Harold A. **Sensitive visible interferometry with PAVO** SPIE **7013**, 2008
34. Mourard, D., Perraut, K., Bonneau, D., Clause, J. M., Stee, Ph., Tallon-Bosc, I., Kervella, P., Hughes, Y., Marcotto, A., Blazit, A., Chesneau, O., Domiciano de Souza, A., Foy, R., Hnault, F., Mattei, D., Merlin, G., Roussel, A., Tallon, M., Thiebaut, E., McAlister, H., tenBrummelaar, T., Sturmann, J., Sturmann, L., Turner, N., Farrington, C., Goldfinger, P. J. **VEGA: a new visible spectrograph and polarimeter on the CHARA Array** SPIE **7013**, 2008
35. Zhao, Ming, Monnier, John D., tenBrummelaar, Theo, Pedretti, Ettore, Thureau, Nathalie D. **Exoplanet studies with CHARA-MIRC** SPIE **7013**, 2008

36. Berger, David H., Monnier, John D., Millan-Gabet, Rafael, tenBrummelaar, Theo A., Anderson, Matthew, Blum, Jennifer L., Blasius, Timothy, Pedretti, Ettore, Thureau, Nathalie **CHARA Michigan phase-tracker (CHAMP): a preliminary performance report SPIE 7013**, 2008
37. Tannirkulam, A., Monnier, J. D., Millan-Gabet, R., Harries, T. J., Pedretti, E., Zhu, Z., tenBrummelaar, T. A. **The gas-dust transition region in young stellar objects: a sub-milli-arcsecond view through the eyes of CHARA SPIE 7013**, 2008
38. tenBrummelaar, Theo A., McAlister, Harold A., Ridgway, Steve, Gies, Douglas R., Sturmman, Judit, Sturmman, Laszlo, Turner, Nils H., Mrand, Antoine, Thompson, Robert, Farrington, Christopher D., Goldfinger, P. J. **An update on the CHARA array SPIE 7013**, 2008
39. Tuthill, Peter, Davis, John, Ireland, Michael, Jacob, Andrew, North, Julian, Owens, Stephen, Robertson, J. Gordon, Tango, William, tenBrummelaar, Theo, **The SUSI instrument: new science and technology SPIE 7013**, 2008
40. Monnier, John D., Zhao, M., Pedretti, E., Thureau, N., Ireland, M., Muirhead, P., Berger, J.-P., Millan-Gabet, R., Van Belle, G., tenBrummelaar, T., McAlister, H., Ridgway, S., Turner, N., Sturmman, L., Sturmman, J., Berger, D., Tannirkulam, A., Blum, J. **Imaging the surface of Altair and a MIRC update SPIE 7013**, 2008
41. Zhao, Ming, Monnier, John D., tenBrummelaar, Theo, Pedretti, Ettore, Thureau, Nathalie **Closure phase studies toward direct detection of light from hot Jupiters**, Proceedings I.A.U. Symposium No. 249, 2008
42. Turner, Nils H., tenBrummelaar, T. A., Mason, B. D. **High Resolution Analysis of O Stars using the CHARA Array American Astronomical Society #212**, 2009
43. Berger, D. H., tenBrummelaar, T. A., Gies, D. R., Henry, T. J., McAlister, H. A., Merand, A., Sturmman, J., Sturmman, L., Turner, N. H., Aufdenberg, J. P., Ridgway, S. T. **The Radius-Luminosity Relation from Near-Infrared Interferometry: New M Dwarf Sizes from the CHARA Array 14th Cambridge Workshop on Cool Stars**, 2008
44. Turner, Nils H., tenBrummelaar, T. A., Roberts, L. C., Jr., Mason, B. D., Hartkopf, W. I., Gies, D. R. **A Survey For Companions To Bright O Stars Using Adaptive Optics American Astronomical Society #211**, Austin, 2007
45. Zhao, Ming, Monnier, J., Pedretti, E., Thureau, N., tenBrummelaar, T., McAlister, H., Turner, N., Sturmman, J., Sturmman, L. **Imaging And Modeling Rapidly Rotating Stars: Rasalhague And Alderamin American Astronomical Society #211**, Austin, 2007
46. tenBrummelaar, Theo, Merand, A., McAlister, H., Coude du Foresto, V., Ridgway, S., Sturmman, J., Sturmman, L., Turner, N. **Measuring High Precision and Unbiased Distances to Cepheids using Optical Interferometry: Recent Results from the CHARA Array American Astronomical Society #211**, Austin, 2007

47. Farrington, Christopher D., McAlister, H. A., tenBrummelaar, T., **Orbital Analysis of Separated Fringe Packet Binaries using the CHARA Array** American Astronomical Society #211, Austin, 2007
48. J.P. Aufdenberg, M.J. Ireland M.J., A. Mérand, V. Coud Du Foresto, O. Absil, E. Di Folco, P. Kervella, W.G. Bagnuolo Jr., D.R. Gies, S.T. Ridgway, D.H. Berger, T.A. ten Brummelaar, H.A. McAlister, J. Sturmann, L. Sturmann, N.H. Turner, and A.P. Jacob, **Interferometric Constraints on Gravity Darkening with Application to the Modeling of Spica A & B**, Proceedings I.A.U. Symposium No. 240, Prague (2007)
49. T.A. ten Brummelaar, **Reducing Binary Star Data from Long-Baseline Interferometers**, Proceedings I.A.U. Symposium No. 240, Prague (2007)
50. H.A. McAlister, R. Akeson, T. Armstrong, E. Bakker, A. Boden, T.A. ten Brummelaar, M. Creech-Eakman, D. Hutter, D., **Science Highlights from Ground-Based O/IR Interferometers**, American Astronomical Society, Honolulu, 82.09 (2007)
51. D.R. Gies, E.K. Baines, D.H. Berger, C. Farrington, E.D. Grundstrom, W. Huang, H.A. McAlister, T.A. ten Brummelaar, and M.V. McSwain, **CHARA Array Observations of Be Stars and Regulus**, ASP Conf. Series 361, Sapporo (2007)
52. E.K. Baines, G.T. van Belle, H.A. McAlister, T.A. ten Brummelaar, D.H. Berger, N.H. Turner, and P.J. Goldfinger, **Interferometric Observations of the Transiting Planet HD 189733 with the CHARA Array**, American Astronomical Society, Washington, 163.01 (2006)
53. P. Tuthill, J. Lloyd, M. Ireland, F. Martinache, J. Monnier, H. Woodruff, T.A. ten Brummelaar, N.H. Turner, C. Townes, **Sparse-aperture adaptive optics**, SPIE [6272-3A] (2006)
54. E.K. Baines, H.A. McAlister, T.A. ten Brummelaar, J. Sturmann, L. Sturmann, N.H. Turner, **A survey and characterization of extrasolar planetary systems host stars using the CHARA Array**, SPIE [6268-45] (2006)
55. L. Sturmann, J. Sturmann, T.A. ten Brummelaar, H.A. McAlister, **Nine-channel tip/tilt detector at the CHARA Array**, SPIE [6268-83T] (2006)
56. D. Mourard, D. Bonneau, J.M. Clausse, F. Hnault, A. Marcotto, A. Blazit, S. Bosio, Y. Bresson, T.A. ten Brummelaar, P. Kervella, S. Lagarde, H.A. McAlister, A. Mérand, G. Merlin, N. Nardetto, R. Petrov, A. Roussel, K. Rousset-Perraut, P. Stee, J. Sturmann, L. Sturmann, I. Tallon-Bosc, **VEGA: a visible spectrograph and polarimeter for CHARA**, SPIE [6268-3Q] (2006)
57. D.H. Berger, J.D. Monnier, R. Millan-Gabet, T.A. ten Brummelaar, P. Muirhead, E. Pedretti, N. Thureau, **CHARA Michigan phase-tracker (CHAMP): design and fabrication** SPIE [6268-83K] (2006)
58. W.G. Bagnuolo Jr., T.A. ten Brummelaar, H.A. McAlister, D.R. Gies, S.T. Ridgway, **The star 12 Persei and separated fringe packet binaries (SFPB)** SPIE [6268-82T] (2006)

59. J.D. Monnier, E. Pedretti, N. Thureau, J-P. Berger, R. Millan-Gabet, T.A. tenBrummelaar, H.A. McAlister, J. Sturmman, L. Sturmman, P. Muirhead, A. Tannirkulam, S. Webster, W. Zhao, **Michigan Infrared Combiner (MIRC): commissioning results at the CHARA Array** SPIE [6268-81P] (2006)
60. A. Mérand, V. Coudé du Foresto, A. Kellerer, T.A. ten Brummelaar, J-M. Reess, D. Ziegler, **CHARA/FLUOR updates and performance** SPIE [6268-81F] (2006)
61. P. Tuthill, T.A. tenBrummelaar, M. Ireland, S.T. Ridgway, H.A. McAlister, N.H. Turner, **Double-Fourier spatio-spectral decoding** SPIE [6268-80X] (2006)
62. H.A. McAlister, T.A. tenBrummelaar, L. Sturmman, J. Sturmman, N.H. Turner, S.T. Ridgway, **Recent progress at the CHARA interferometric array** SPIE [6268-80G] (2006)
63. O. Absil, E. Di Folco, A. Mérand, J-C Augereau, V. Coudé du Foresto, J.P. Aufdenberg, P. Kervella, S.T. Ridgway, T.A. ten Brummelaar, H.A. McAlister, **Detection of the inner-debris disk of Vega with CHARA/FLUOR** SPIE [6268-809] (2006)
64. J.P. Aufdenberg, A. Mérand, S.T. Ridgway, V. Coudé du Foresto, P. Kervella, D.H. Berger, J. Sturmman, L. Sturmman, T.A. ten Brummelaar, N.H. Turner, and H.A. McAlister, **Interferometric Measurements Of The A-type Supergiant Deneb With The CHARA Array**, American Astronomical Society, Calgary, 6.01 (2006)
65. A. Mérand, P. Kervella, V. Coudé du Foresto, T.A. ten Brummelaar, and H.A. McAlister, **Interferometric Observations of Cepheids. p-factor and center to limb darkening measurements**, *Memorie della Societa Astronomica Italiana*, v.77, p.231 (2006)
66. H.C. Woodruff, J.P. Lloyd, T.A. ten Brummelaar, M. Scholz, N.H. Turner, P.G. Tuthill, **Imaging shock fronts in Mira atmospheres**, *Memorie della Societa Astronomica Italiana*, v.77, p.186 (2006)
67. A. Sivaramakrishnan, B.R. Oppenheimer, M.D. Perrin, L.C. Roberts Jr., R.B. Maki-don, R. Soummer, R. A.F. Digby, L.W. Bradford, M.A. Skinner, M. A. N.H. Turner, and T.A. ten Brummelaar, **Scintillation and pupil illumination in AO coronagraphy**, I.A.U. Symposium No. 200, p613 (2006)
68. N.H. Turner, T.A. ten Brummelaar, L.C. Roberts Jr., D. Gies, B. Mason, and W. Hartkopf, **Search for Faint Companions to O-stars Using the AEOS 3.6 Meter Telescope**, AMOS Technical Conference Proceedings, Maui, (2006)
69. L.C. Roberts Jr., L. Bradford, T.A. ten Brummelaar, N.H. Turner, M. Skinner, E. Therkildsen, B. Oppenheimer, A. Digby, A.; M. Perrin, **The Effects of Scintillation on Non-Redundant Aperture Masking Interferometry** AMOS Technical Conference Proceedings, Maui, (2006)
70. A. Mérand, P. Kervella, V. Coudé Du Foresto, T.A. ten Brummelaar, and H.A. McAlister, **Interferometric Observations of Cepheids: the p-factor measurement**, *Semaine de l'Astrophysique Francaise*, Strasbourg (2005)

71. D.H. Berger, D.R. Gies, H.A. McAlister, T.A. ten Brummelaar, T.J. Henry, J. Sturmann, L. Sturmann, N.H. Turner, S.T. Ridgway, J.P. Aufdenberg, A.M. Mérand, **Fundamental Stellar Properties of M-Dwarfs from the CHARA Array**, American Astronomical Society, Washington, 82.04 (2005)
72. J.P. Aufdenberg, A. Mérand, V. Coudé du Foresto, O. Absil, E. Di Folco, P. Kervella, S.T. Ridgway, J. Sturmann, L. Sturmann, T.A. ten Brummelaar, N.H. Turner, D.H. Berger, and H.A. McAlister, **Interferometric Gravity Darkening Observations of Vega with the CHARA Array**, American Astronomical Society, Washington, 82.03 (2005)
73. F. Martinache, J.P. Lloyd, P. Tuthill, H.C. Woodruff, T.A. ten Brummelaar, and N.H. Turner, **Precision Imaging with Adaptive Optics Aperture Masking Interferometry**, American Astronomical Society, Washington, 82.02 (2005)
74. D.R. Ciardi, G.T. van Belle, T.A. ten Brummelaar, H.A. McAlister, D.H. Berger, R.R. Thompson, C. Ogden, J. Sturmann, L. Sturmann, N.H. Turner, P.J. Goldfinger, and S.T. Ridgway, **CHARA Commissioning Science Observations: The Diameter of λ Bootes**, American Astronomical Society, Minneapolis, 14.20 (2005)
75. J.D. Monnier, E. Pedretti, R. Millan-Gabet, J-P. Berger, W. Traub, T.A. ten Brummelaar, H.A. McAlister, P. Schloerb, P., Keck Interferometer Team, Iota Interferometer Team, Chara Interferometer Team, **Zooming in on Herbig Ae/Be Stars: Sizes and Shapes of the "Hot Inner Wall" Through Near-Infrared Interferometry** Protostars and Planets, Hawaii, 1286 (2005)
76. J.P. Aufdenberg, P. Kervella, D. Mozurkewich, A. Mérand, S.T. Ridgway, V. Coudé Du Foresto, T.A. ten Brummelaar, D.H. Berger, J. Sturmann, and N.H. Turner, **Procyon A: convection signatures**, 13th Cambridge Workshop on Cool Stars, Hamburg (2004)
77. W.G. Bagnuolo, S.F. Taylor, H.A. McAlister, T.A. ten Brummelaar, L. Sturmann, J. Sturmann, N.H. Turner, D. Berger, & S.T. Ridgway, **Separated Fringe Packet Binaries**, American Astronomical Society, San Diego, 153.11 (2004)
78. T.A. ten Brummelaar, N.H. Turner, M.A. Skinner, L.C. Roberts Jr., L.W. Bradford, M. Perrin, & B.R. Oppenheimer, **AEOS as a testbed for the use of adaptive optics in optical/interferometry**, AMOS Technical Conference Proceedings, Maui, (2004)
79. M.A. Skinner, L.C. Roberts Jr., L.W. Bradford, T.A. ten Brummelaar, N.H. Turner, M Perrin & B.R. Oppenheimer, **Statistics of Atmospheric Turbulence**, AMOS Technical Conference Proceedings, Maui (2004)
80. J.D. Monnier, J.P. Berger, R. Millan-Gabet, & T.A. ten Brummelaar, **The Michigan Infrared Combiner (MIRC): Infrared imaging with the CHARA Array**, SPIE [5491-1370] (2004)
81. H.A. McAlister, T.A. ten Brummelaar, J.P. Aufdenberg, W.G. Bagnuolo Jr., D.H. Berger, V. Coudeé Foresto, A. Merand, C. Ogden, S.T. Ridgway, J. Sturmann, L. Sturmann, S.F. Taylor, & N.H. Turner, **CHARA Recent Technology and Science**, SPIE [5491-472] (2004)

82. N.H. Turner, T.A. ten Brummelaar, L.C. Roberts, Jr., **Faint Companion Search to O-stars using the AEOS Adaptive Optics System**, AMOS Technical Conference Proceedings, 594-603 (2002), Maui September (2002)
83. T. Fallon, H.A. McAlister, T.A. ten Brummelaar, **Remote operation of the CHARA Array via the Internet**, SPIE [4838-45] (2002)
84. C.E. Ogden, T.A. ten Brummelaar, J. Sturmann, **Visible band group delay fringe tracker for the CHARA Array**, SPIE [4838-163] (2002)
85. W.G. Bagnuolo, Jr., T.A. ten Brummelaar, H.A. McAlister, N.H. Turner, L. Sturmann, J. Sturmann, S.T. Ridgway, **Well-resolved binary astrometry with the CHARA Array**, SPIE [4838-27] (2002)
86. S.T. Ridgway, T.A. ten Brummelaar, H.A. McAlister, L. Sturmann, J. Sturmann, N.H. Turner, W.G. Bagnuolo, Jr., D.H. Berger, N. Safizadeh, **Stellar diameter measurements from the CHARA Array**, SPIE [4838-30] (2002)
87. H.A. McAlister, T.A. ten Brummelaar, W.G. Bagnuolo, Jr., S.T. Ridgway, L. Sturmann, J. Sturmann, S. Taylor, N.H. Turner, **Spectroscopic binary stars and the CHARA array**, SPIE [4838-112] (2002)
88. V. Coudé du Foresto, H.A. McAlister, G. Perrin, S.T. Ridgway, T.A. ten Brummelaar, **Combining very high angular resolution with high dynamic range: the FLUOR instrument at the CHARA Array**, SPIE [4838-73] (2002)
89. B.E. Hines, T.A. ten Brummelaar, M.A. Shure, **Very low cost high speed camera controller and camera simulator for RT Linux for the CHARA Array**, SPIE [4838-47] (2002)
90. D.H. Berger, T.A. ten Brummelaar, W.G. Bagnuolo, Jr., H.A. McAlister, **Preliminary results from the longitudinal dispersion compensation system for the CHARA Array**, SPIE [4838-164] (2002)
91. L. Sturmann, T.A. ten Brummelaar, H.A. McAlister, S.T. Ridgway, J. Sturmann, N.H. Turner, **Testing the telescopes of the CHARA Array**, SPIE [4838-45] (2002)
92. J. Sturmann, T.A. ten Brummelaar, H.A. McAlister, S.T. Ridgway, M.A. Shure, L. Sturmann, N.H. Turner, **Infrared beam combination at the CHARA Array**, SPIE [4838-46] (2002)
93. T.A. ten Brummelaar, H.A. McAlister, S.T. Ridgway, N.H. Turner, L. Sturmann, J. Sturmann, W.G. Bagnuolo Jr, M.A. Shure, **An Update of the CHARA Array**, SPIE [4838-09] (2002)
94. N.H. Turner, T.A. ten Brummelaar, H.A. McAlister, S.T. Ridgway, L. Sturmann, J. Sturmann, W.G. Bagnuolo, M. Hrynevych, M.A. Shure, **The CHARA Array Control System**, meeting 198 of the American Astronomical Society, Pasadena CA (2001)

95. A. Merand, T.A. ten Brummelaar, H.A. McAlister, S.T. Ridgway, J. Sturmman, L. Sturmman, N.H. Turner, W.G. Bagnuolo Jr., M. Hrynevych, M.A. Shure, **Optical Path Difference Fluctuations at the CHARA Interferometric Array**, meeting 198 of the American Astronomical Society, Pasadena CA (2001)
96. J. Sturmman, T.A. ten Brummelaar, S. T. Ridgway, H. A. McAlister, M. A. Shure, L. Sturmman, N.H. Turner, **The Two-Beam IR Beam Combiner at the CHARA Array**, meeting 198 of the American Astronomical Society, Pasadena CA (2001).
97. L. Sturmman, T.A. ten Brummelaar, S.T. Ridgway, H.A. McAlister, J. Sturmman, W.G. Bagnuolo Jr., N.H. Turner, M.A. Shure, **Testing the Telescopes of the CHARA Array**, meeting 198 of the American Astronomical Society, Pasadena CA (2001).
98. T.A. ten Brummelaar, H.A. McAlister, S.T. Ridgway, N.H. Turner, L. Sturmman, J. Sturmman, W.G. Bagnuolo Jr., M. Hrynevych, and M.A. Shure, **Commissioning Observations for the CHARA Array** meeting 198 of the American Astronomical Society, Pasadena CA (2001).
99. S. T. Ridgway, W. G. Bagnuolo, Jr., L. D. Barr, R. D. Blakley, T. A. ten Brummelaar, H. A. McAlister, M. A. Shure, E. Simison, L. Sturmman, N. H. Turner, **CHARA array vacuum optical system**, SPIE [4006-85] (2000)
100. T. A. ten Brummelaar, **Technical update on the CHARA array**, SPIE [4006-68] (2000)
101. H. A. McAlister, W. G. Bagnuolo, Jr., T. A. ten Brummelaar, R. Cadman, S. T. Ridgway, L. Sturmman, N. H. Turner, **CHARA array on Mt. Wilson, California**, SPIE [4006-54] (2000)
102. T.A. ten Brummelaar, **A Technical Update of the CHARA Array**, Presented at “Working on the Fringe” – Dana Point in May of 1999.
103. T.A. ten Brummelaar, **Calibration of Interferometric Arrays**, Presented at “Catching the Perfect Wave – Adaptive Optics and Optical Interferometry in the 21st Century”, PASP vol 174, 147-158 (1998) Albuquerque, NM.
104. N.H. Turner, T.A. ten Brummelaar, C. Ftaclas and C. Shelton, **Preliminary Results of the Mount Wilson AO Coronagraphic System**, Presented at “Catching the Perfect Wave – Adaptive Optics and Optical Interferometry in the 21st Century”, 28 June – 1 July 1998, Albuquerque, NM.
105. T.A. ten Brummelaar, W.I. Hartkopf, B.D. Mason, H.A. McAlister, & L.C. Roberts Jr., N.H. Turner, **Scientific results using the Mt. Wilson Institute adaptive optics system**, Proceedings of SPIE Vol. 3353 Adaptive Optical System Technologies, 391-397 (1998).
106. C.E. Padilla, V.I. Karlov, L.E. Matson, K. Soosaar, H.A. McAlister, & T.A. ten Brummelaar, **High-performance fringe tracking algorithms utilizing statistical models of atmospheric turbulence**, Proceedings of SPIE Vol. 3350 Astronomical Interferometry, 1045-1056 (1998).

107. N.H. Turner & T. A. ten Brummelaar, **A prototype beam combiner for the CHARA Array**, Proceedings of SPIE Vol. 3350 Astronomical Interferometry, 1037-1044.
108. T.A. ten Brummelaar, **Three-dimensional layout of the CHARA array on Mount Wilson**, Proceedings of SPIE Vol. 3350 Astronomical Interferometry, 448-451 (1998).
109. S.T. Ridgway, H.A. McAlister, & T.A. ten Brummelaar, **Optical telescopes and enclosures for ground-based interferometry: the CHARA array**, Proceedings of SPIE Vol. 3350 Astronomical Interferometry, 951-959.
110. H.A. McAlister, T.A. ten Brummelaar, W. G. Bagnuolo, Jr., W. I. Hartkopf, M. A. Shure, L. Sturmann, N.H. Turner, & S.T. Ridgway, **Progress on the CHARA array (Invited Paper)**, Proceedings of SPIE Vol. 3350 Astronomical Interferometry, 947-950 (1998).
111. D.R. Gies, W.I. Hartkopf, B.D. Mason, W.G. Bagnuolo Jr., T.A. ten Brummelaar, & H.A. McAlister, **O Stars in Binaries**, in *Properties of Hot Luminous Stars: The Second Boulder - Munich Workshop*, ASP Conf. Series 131, ed. I. D. Howarth (San Francisco: A.S.P.), 382-391 (1998).
112. L.C. Roberts, Jr, T.A. ten Brummelaar, & B.D. Mason, **Adaptive Optics: A Pandora's Box for Photometry**, Paper 128.01, meeting 191 of the American Astronomical Society, Washington DC (1998).
113. D.R. Gies, W.I. Hartkopf, B.D. Mason, W.G. Bagnuolo, Jr., T. ten Brummelaar, and H.A. McAlister, **O Stars in Binaries**, Proceedings: Properties of Hot Luminous Stars: The second Boulder-Munich workshop, ASP conference series, Ed: I.D. Howarth, in press (1998)
114. L.C. Roberts, Jr, T.A. ten Brummelaar, W.I. Hartkopf, B.D. Mason, H.A. McAlister, and N.H. Turner, **Adaptive Optics Studies of Binary Stars**, Paper 28.02, meeting 190 of the American Astronomical Society, Winston-Salem (1997).
115. N.H. Turner & T.A. ten Brummelaar, **A Visible Light Imager for the CHARA Array**, Paper 9.06, meeting 190 of the American Astronomical Society, Winston-Salem (1997).
116. B.D. Mason, T.A. ten Brummelaar, W.I. Hartkopf, & H.A. McAlister, **A Speckle Survey of Hipparcos "Questionable" Binary Stars**, ESA conference on Hipparcos astrometry mission, Venice (1997).
117. L.C. Roberts, Jr., T.A. ten Brummelaar, W.G. Bagnuolo, Jr., W.I. Hartkopf, B.D. Mason, H.A. McAlister, & N.H. Turner, **Binary Star Differential Photometry**, Proceedings I.A.U. Symposium No. 189, Sydney, 72 (1997).
118. T.A. ten Brummelaar, H.A. McAlister, W.G. Bagnuolo Jr., W.I. Hartkopf, S.T. Ridgway & N.H. Turner, **Tailoring an Interferometer to its Science and Vice Versa**, ESO Workshop: Science with the VLT Interferometer Ed: F. Paresce, held at Garching 18-21 June 1996, 133 (1997).

119. T.A. ten Brummelaar, B.D. Mason, W.G. Bagnuolo, Jr., W.I. Hartkopf, H.A. McAlister & N.H. Turner, **Binary Star Differential Photometry at SOR**, Workshop on Optical/Infrared Interferometry and Adaptive Optics in honor of Charles H. Townes, January 1996.
120. H.A. McAlister, W.G. Bagnuolo Jr., T.A. tenBrummelaar, W.I. Hartkopf, N.H. Turner & S.T. Ridgway, **The CHARA Optical/IR Interferometric Array Project**, Proc SPIE, **2524**, 180 (1995)
121. N.H. Turner, T.A. ten Brummelaar, and H.A. McAlister, **A prototype visible imager for the CHARA Array**, Presented at the American Astronomical Society Annual General Meeting, Bulletin of the American Astronomical Society, **26**, 895 (1994).
122. T.A. ten Brummelaar, **Temporal power spectra of Zernike coefficients**, Paper 2200-39 in SPIE Symposium on Astronomical Telescopes and Instrumentation for the 21st Century, 418-421 (1994).
123. T.A. tenBrummelaar and W.G. Bagnuolo Jr., **The CHARA beam combiner design**, Paper 2200-16 in SPIE Symposium on Astronomical Telescopes and Instrumentation for the 21st Century, 140-151 (1994).
124. H.A. McAlister, W.G. Bagnuolo Jr., T.A. ten Brummelaar, W.I. Hartkopf, N.H. Turner, A.K. Garrison, W.G. Robinson & S.T. Ridgway, **The CHARA Array**, Paper 2200-15 in SPIE Symposium on Astronomical Telescopes and Instrumentation for the 21st Century, 129-139 (1994).
125. J. Davis, W.J. Tango, A.J. Booth, R.R. Shobbrook, R.A. Minard, T. ten Brummelaar, S.M. Owens, P. Lawson, J. Giovannis and E. Thorvaldson, **First observations with SUSI**, Proceedings I.A.U. Symposium No. 158 on Very High Angular Resolution Astronomy, Sydney (1993).
126. R.A. Minard, A.J. Booth, T.A. tenBrummelaar, H. Bennis and S.M. Owens, **An overview of the SUSI control system**, Proceedings I.A.U. Symposium No. 158 on Very High Angular Resolution Astronomy, Sydney, 181-183 (1993).
127. T.A. ten Brummelaar, W.J. Tango, J. Davis and R.R. Shobbrook, **A preliminary seeing study for SUSI**, Proceedings I.A.U. Symposium 158 on Very High Angular Resolution Astronomy, Sydney, 302-304 (1993).
128. J. Davis, W.J. Tango, A.J. Booth, R.A. Minard, T.A. ten Brummelaar and R.R. Shobbrook, **An update on SUSI**, in High Resolution Imaging by Interferometry II, F. Merkle ed., E.S.O. (Garching), 1075-1078 (1992).
129. T.A. tenBrummelaar, **An active wavefront tilt correction servo for SUSI**, in High Resolution Imaging by Interferometry II, F. Merkle ed., E.S.O. (Garching), 741-745 (1992).

Publications as Technical Reports for the National Science Foundation:

1. T.A. ten Brummelaar, **Optimum Pixel Size for NIRO Input Optics**, CHARA Technical Report 93 (2007)

2. T.A. ten Brummelaar, **Beam Heights and Optical Table Alignment**, CHARA Technical Report 84 (1998)
3. T.A. ten Brummelaar, **CHARA Array User Interface: Programmer's Manual**, CHARA Technical Report 81 (1998)
4. T.A. ten Brummelaar, **Fringe Tracking and Visible Imaging: Camera Specifications**, CHARA Technical Report 79 (1998)
5. M.A. Shure, S.T. Ridgway & T.A. ten Brummelaar, **Relay Mirror Specifications & Requirements**, CHARA Technical Report 78 (1998).
6. T.A. ten Brummelaar, **Local Clocks for Device Controllers**, CHARA Technical Report 74 (1998).
7. T.A. ten Brummelaar, **Coding Practices for the CHARA Array**, CHARA Technical Report 70 (1998).
8. T.A. ten Brummelaar, **Timing and Network Requirements on Mount Wilson**, CHARA Technical Report 68 (1998).
9. T.A. ten Brummelaar, **OPLE Cart: Schedule for Delivery from JPL**, CHARA Technical Report 67 (1998).
10. S.T. Ridgway, H.A. McAlister, W. Bagnuolo, T.A. ten Brummelaar, & M. Shure, **Design Considerations for the CHARA Optical Delay System Mechanical Support Structure**, CHARA Technical Report 64 (1998).
11. T.A. ten Brummelaar, **Beam Combining Optical Components**, CHARA Technical Report 61 (1997).
12. T.A. ten Brummelaar, **Wobbler Servo Control Requirements**, CHARA Technical Report 53 (1997).
13. T.A. ten Brummelaar, **Telescope and Dome Control Requirements**, CHARA Technical Report 52 (1997).
14. T.A. ten Brummelaar, **A 'Strawman' Observing Method and the Array Control System**, CHARA Technical Report 51 (1997).
15. S.T. Ridgway & T.A. ten Brummelaar, **The OPLE 'T' Support System**, CHARA Technical Report 50 (1997).
16. T.A. ten Brummelaar, **The 3D Layout of the CHARA Array**, CHARA Technical Report 48 (1997).
17. T.A. ten Brummelaar, **BCL Optical Table Requirements**, CHARA Technical Report 43 (1997).
18. T.A. ten Brummelaar, **OPLE Optical Table Requirements**, CHARA Technical Report 41 (1996).
19. M. Collins & T.A. ten Brummelaar, **Preliminary Software Issues**, CHARA Technical Report 40 (1996).

20. T.A. ten Brummelaar, **The Telescope Secondary as a Tip/Tilt mirror**, CHARA Technical Report 39 (1996).
21. T.A. ten Brummelaar & S.T. Ridgway, **OPLE Cart Mirror Specifications & Requirements**, CHARA Technical Report 38 (1996).
22. T.A. ten Brummelaar, **Optical Mounts and Tables**, CHARA Technical Report 35 (1996).
23. T.A. ten Brummelaar, **Modeling a Large Baseline Optical Stellar Interferometer Using Zernike Polynomials**, CHARA Technical Report 29 (1996).
24. B.D. Mason & T.A. ten Brummelaar, **Observing AGNs with an Optical Interferometer**, CHARA Technical Report 25 (1995).
25. T.A. ten Brummelaar, **Correlation measurement and group delay tracking with a noisy detector**, CHARA Technical Report 24 (1995).
26. S.T. Ridgway, W.G. Bagnuolo, T.A. ten Brummelaar & H.A. McAlister, **Building Requirements for the CHARA Array**, CHARA Technical Report 23 (1995).
27. S.T. Ridgway, L. Barr, & T.A. ten Brummelaar, **Mount Design Issues for the CHARA Array**, CHARA Technical Report 21 (1995).
28. T.A. ten Brummelaar, J. Hildebrand, & S.T. Ridgway, **Wobbler Servo Requirements**, CHARA Technical Report 19 (1995).
29. H.A. McAlister, W.G. Bagnuolo, T.A. ten Brummelaar, W.I. Hartkopf, & B.D. Mason, **The CHARA Array as an ASEPS Resource**, CHARA Technical Report 18 (1995).
30. T.A. ten Brummelaar, **Effect of Telescope Deformation on Visibility and Strehl**, CHARA Technical Report 7 (1995).
31. T.A. ten Brummelaar, W.G. Bagnuolo & S. T. Ridgway, **Strehl Ratio and Coherence Loss in Long Baseline Interferometry**, CHARA Technical Report 6 (1994).
32. T. A. ten Brummelaar, **Notes on Using 1.8 meter Telescopes**, CHARA Technical Report 5 (1994).
33. S. T. Ridgway, T.A. ten Brummelaar, & W.G. Bagnuolo, **Pipes of Pan - Switchable Optical Delay**, CHARA Technical Report 4 (1994).
34. T.A. ten Brummelaar, **CHARA's Wobblers: Preliminary Specifications**, CHARA Technical Report 1 (1993).

Publications in the Popular Press:

1. Chapter on Optical Interferometry for a new text book on Astronomical Techniques to be published by Springer in 2012.
2. Astronomical Images use in an article by R. Scalpell, **Stars in your eyes**, Astronomy Now magazine, August 1997, p15-17.

3. **Techniques of High Resolution Astronomy**, an invited article for the Dutch popular Astronomy magazine Zenit, January 1999.
4. **Probing stars with optical and near-IR interferometry**, Physics Today, June 2009, with John Monnier and Michelle Chreech-Eakman.
5. **Optical & Infrared Interferometers**, A chapter of the Spinger text book “Planets, Stars and Stellar Systems”, in prep, with Hal McAlister.