Publications

Ph.D. Thesis: "Multifrequency Observations of Cygnus A and the Physics of Powerful Radio Galaxies," C.L. Carilli 1989, Massachusetts Institute of Technology.

Books

"Science with the Square Kilometer Array," eds. C.L. Carilli & S. Rawlings 2004, New Astron. Rev., Vol. 48

"Aperture Synthesis in Radio Astronomy II," eds. G.B. Taylor, C.L. Carilli, and R.A. Perley 1999, ASP: San Francisco, USA.

"Highly Redshifted Radio Lines," eds. C.L. Carilli, S. Radford, K.M. Menten, and G. Langston, 1999, ASP: San Francisco, USA.

"Cygnus A: Study of a Radio Galaxy," eds. C.L. Carilli and D.E. Harris 1996, Cambridge University Press: Cambridge, UK.

"Cold Gas at High Redshift: a Workshop Celebrating the 25th Anniversary of the WSRT," eds. M. Bremer, P. van der Werf, H. Rottgering, and C. Carilli 1996, Kluwer Press: Dordrecht, The Netherlands.

Review Articles

"Observational contraints on cosmic reionization," X. Fan, C.L. Carilli, B. Keating 2006, ARAA, 44, 415

"Cluster Magnetic Fields," C.L. Carilli & G.B. Taylor, 2002, ARAA, 40, 319

"Physical Processes in Extragalactic Radio Sources," C.L. Carilli, R.A. Perley, D.E. Harris, and P.D. Barthel 1998, Physics of Plasmas, 5, 1981.

"Cygnus A," C.L. Carilli and P.D. Barthel 1996, A&A Reviews, 7, 1

Journal Articles: General Science Journals

"Constraints on changes in fundamental constants from a cosmologically distant OH emitter/absorber," N. Kanekar, C. Carilli, et al. 2005, Phys. Rev. Letters, 95, 1301

"The heating of gas in a galaxy cluster by X-ray cavities and large-scale shock fronts,' B.R. McNamara et al. 2005, Nature, 433, 45

"First positive detection of high redshift HCN emission," P. Solomon, P. van den Bout, C. Carilli, M. Geulin 2003, Nature, 426, 636

"Molecular Gas in the Host Galaxy of a Quasar at Redshift z=6.42," F. Walter, F. Bertoldi, C. Carilli, et al. 2003, Nature, 424, 406

"A molecular Einstein ring," C.L. Carilli et al. 2003, Science, 300, 773

"Molecular gas in the distant universe: the case of APM 08279+5255," P.P. Papadopoulos, R.J. Ivison, C.L. Carilli, and G.F. Lewis 2001, Nature, 409, 58

"Astronomical Constraints on the Cosmic Evolution of the Fine Structure Constant and Possible Quantum Dimensions," C.L. Carilli, et al. 2000, Phys. Rev. Letters, 85, 5511

"Tropospheric Phase Calibration in Millimeter Interferometry," C.L. Carilli and M.A. Holdaway 1999, Radio Science, 34, 817

"An Image of Betelgeuse's Cool Atmosphere," J. Lim, C.L. Carilli, S. White, A. Beasley, and R. Marson 1998, Nature, 392, 575

"X-ray Emission from the Radio Hot Spots of Cygnus A," D.E. Harris, C.L. Carilli, and R.A. Perley 1994, Nature, 367, 713

"Disturbed Neutral Hydrogen in the Galaxy NGC 3067 Pointing to the Quasar, 3C 232," C.L. Carilli, J.H. van Gorkom, and J.T. Stocke 1989, Nature, 338, 134

Journal Articles: Astronomy Journals

"Molecular gas in QSO host galaxies at $z > 5$," Maiolino, R. et al. 2007, A& A letters, in press

"Detection of 1.6×10^{10} $M_\odot$ of molecular gas in the host galaxy of the $z = 5.77$ SDSS quasar J0927+2001," Carilli, C. et al. 2007, ApJ (letters), in press

"Radio Properties of Cavities in the ICM: Imprints of AGN Activity," Birzan, L. et al. 2007, ApJ, in press

"High sensitivity array observations of the $z = 4.4$ QSO BRI 1335–0417," E. Momjian, C. Carilli, et al. 2007, AJ, 134, 694

"Redshifted formaldehdye from the gravitational lens B0218+357," N. Jethava et al. 2007, A& A, in press

"Black hole masses and enrichment of z = 6 SDSS quasars," J. Kurk et al. 2007, A & A, in press

"HCN Observations of dence star forming gas in high redshift galaxies," Y. Gao, C. Carilli, P. Solomon, P. van den Bout 2007, ApJ, 660, L93

"Millimeter and radio observations of $z \sim 6$ quasars," R. Wang, C. Carilli et al. 2007, AJ, 134, 617

"A search for HI 21cm absorption toward the highest redshift ($z \sim 5.2$) radio loud objects," C. Carilli et al. 2007, AJ, 133, 2841

"The [OII]3727 Luminosity function and Star Formation Rate at $z \sim 1.2$ in the COSMOS 2 Square-degree Field and the Subaru Deep Field," M. Takahshi et al. 2007, ApJS, in press

" The Spitzer Legacy Survey of the HST-ACS 2 sq. deg. COSMOS Field: survey strategy and first analysis," D. Sanders et al. 2007, ApJS, in press

"A wide angle tail galaxy in the COSMOS field," V. Smolcic et al. 2006, ApJS, in press

"The VLA/COSMOS Survey," E. Schinnerer et al. 2007, ApJS, in press

"COSMOS: the HST observations," N. Scoville et al. 2007, ApJS, in press

"The First Release COSMOS Optical and Near-IR Data and Catalog," P. Capak et al. 2007, ApJS, in press

"The COSMOS Survey: Subaru observations," Y. Taniguchi et al. 2007, ApJS, in press

"Millimeter imaging of the COSMOS field," F. Bertoldi, C. Carilli, et al. 2007, ApJS, in press

"Radio and mm properties of Lyα emitters at $z = 5.7$," C. Carilli, et al. 2007, ApJS, in press

"Lyα emitters at $z = 5.7$ in the COSMOS Field," M. Murayama et al. 2007, ApJS, in press

"Detection of Emission from the CN radical in the cloverleaf quasar at $z = 2.56$," D. Riechers et al. 2006, ApJ, in press

"Sensitive Very Long Baseline Interferometry Studies of the OH Megamaser Emission from IRAS 17208-0014," E. Momjian et al. 2006, AJ, 653, 1172

"CH Cyg Xray jet activity," M. Karovska, C. Carilli, J. Raymond, J. Mattei 2007, ApJ, 661, 1048

"Spitzer observations of $z \sim 6$ Quasars," L. Jiang et al. 2006, AJ, 132, 2127

"The starburst in the Abell 1835 cluster central galaxy," B. McNamara et al. 2006, ApJ, 648, 164

"First detection of HCO+ at high redshift," D. Riechers et al. 2006, ApJ, 645, L13

"A search for H_20 in the strongly lensed QSO MG 0751+2716 at $z = 3.2$," D. Riechers et al. 2006, ApJ, 649, 635

"Cygnus A: A Long Wavelength Resolution of the Hot Spots," Lazio, J. et al., ApJ, 642, L33

"CO Line Width Differences in EMGs: Submm Galaxies Versus QSO Hosts," C.L. Carilli & R. Wang 2006, AJ, 131, 2763

"CO (1-0) in $z > 4$ quasar host galaxies," D. Riechers et al. 2006, ApJ, 650, 604

"First Detection of HCO+ Emission at High Redshift," D. Riechers et al. 2006, ApJL, 645, L13

"Radio and millimeter observations of $z \sim 2$ QSOs," A. Petric et al. 2005, AJ, 132, 1307

"QSOs in the MAMBO surveys," H. Voss et al. 2005, A& A, 448, 823

"350 micron dust emission from high redshift quasars," A. Beelen et al. 2005, A& A, 642, 694

"HI 21cm probes of reionization, and beyond," Carilli, C.L. 2006, New Astro. Rev., 50, 162

"The SCUBA 1/2 degree extragalactic survey," Mortier, A. et al. 2005, MNRAS, 363, 563

"First detection of [CII] 158 μm at high redshift," R. Maiolino et al. 2005, A& A, 440, L51

"The kinetic temperature of a molecular cloud at $z = 0.7$," C. Henkel et al. 2005, A& A, 440, 893

"Improved Constraints on The Neutral Intergalactic Hydrogen Surrounding Quasars at Redshifts $z > 6$," S. Wyithe, A. Loeb, C. Carilli 2005, ApJ, 628, 575

"Sensitive VLBI observations of the $z = 4.7$ QSO BRI 1202–0725," E. Momjian, C. Carilli, & A. Petric 2005, AJ, 129, 1809

"Absorption line study of halo gas in NGC 3067 toward 3C 232," B. Keeney et al. 2005, ApJ, 622, 267

"On the Xray emission from z=2 radio galaxies," R. Overzier et al. 2005, A& A, 433, 87

"Atomic carbon in PSS 2322+1944 at $z = 4.12$," J. Pety et al. 2004, A& A, 428, L21

"Discovery of six Lyα emitters near a radio galaxy at $z = 5.2$," Venemans, B. et al. 2004, A& A, 424, L17

"Science with the Square Kilometer Array: Motivation, Key Science Projects, Standards and Assumptions," C. Carilli and S. Rawlings 2004, New Astro. Rev., 48, 979

"Probing the dark ages with the square kilometer array," C. Carilli et al. 2004, New Astro. Rev., 48, 1029

"A search for dense molecular gas in high redshift IR-luminous galaxies," C. Carilli et al. 2005, ApJ, 618, 586

"SKA observations of HI 21cm absorption by the neutral IGM during the Epoch of Reionization," C. Carilli et al. 2004, New Astro. Rev., 48, 1053

"Resolved molecular gas in a host galaxy at redshift z=6.43," F. Walter et al. 2004, ApJ (letters), 615, L17

" Searching for high-redshift centimeter-wave continuum, line and maser emission using the Square Kilometer Array," A. Blain, C. Carilli, J. Darling 2004, New Astro. Rev., 48, 1247

"The VLA COSMOS pilot survey," E. Schinnerer et al. 2004, AJ, 128, 1974

"Radio continuum imaging of FIR luminous QSOs at $z > 6$," C. Carilli et al. 2004, AJ, 128, 997

"A 1200 micron MAMBO Survey of ELAIS N2 and the Lockman Hole," T. Greve et al. 2004, MNRAS, 354, 779

"A multi-wavelength study of the proto-cluster surrounding the z=4.1 radio galaxy TN J1338-1942," C. de Breuck et al. 2004, A& A, 424, 1

"Starburst activity in the host galaxy of the z=2.58 quasar J1409+5628," A. Beelen et al. 2004, A& A, 423, 441

"The faint counterparts of MAMBO mm sources in the NTT deep field," H. Dannerbauer et al, 2004, ApJ, 606, 664

"Dense molecular gas in quasar host galaxies: a search for HCN emission from BR B1202-0725 at z= 4.695 ," K. Isaak, C. Chandler, C. Carilli 2004, MNRAS, 348, 1035

"First detection of cold dust in the northern shell of NGC 5128 (Centaurus A)," M. Stickel et al. 2004, A& A, 415, 95

"VLBA observations of $z > 4$ radio-loud quasars," E. Momjian, A. Petric, C. Carilli 2004, AJ, 127, 587

"Sensitive VLBI Continuum and HI absorption observations of NGC 7674," E. Momjian, J. Romney, C. Carilli, T. Troland 2003, ApJ, 597, 809

"High-excitation CO in a quasar host galaxy at z =6.42," F. Bertoldi et al. 2003, A&A (letters), A& A 409, L47

"Dust emission from the most distant quasars," F. Bertoldi, et al. 2003, A&A letters, 406, 55

"Variability of sub-mJy radio sources," C.L. Carilli, R.J. Ivison, D. Frail 2003, ApJ, 590, 192

"SCUBA observations of MAMBO sources: a search for dust emission at the highest redshifts," S. Eales et al. 2003, MNRAS, 344, 169

"Sensitive imaging of the highest redshift QSOs at 1.4 and 250 GHz," A. Petric et al. 2003, AJ, 126, 15

"VLBA Continuum and HI absorption observations of the Ultraluminous infrared galaxy IRAS 17208–0014," E. Momjian, J. Romney, C. Carilli, T. Troland, G. Taylor 2003, ApJ, 587, 160

"A 1.2mm MAMBO study of dust emission from bright z=2 QSOs," A. Omont et al. 2003, A&A, 398, 857

"A Chandra study of the Xray sources in the field of the z=2.16 radio galaxy MRC 1138-262," L. Pentericci et al. 2002, A&A, 396, 109

"The Apparent Host Galaxy of PKS 1413+135: Hubble Space Telescope, ASCA, and Very Long Baseline Array Observations," E. Perlman et al. 2002, AJ, 124, 240

"Imaging low order CO emission from the z=4.12 QSO PSS 2322+1944," C.L. Carilli et al. 2002, ApJ, 575, 145

"HI 21cm absorption beyond the epoch of re-ionization," C.L. Carilli, N.Y. Gnedin, F. Owen 2002, ApJ, 577, 22

"CO and Dust in PSS 2322+1944 at a redshift of 4.12," P. Cox et al. 2001, A& A, 387, 406

"Properties of mm galaxies: Constraints from K band blank fields," H. Dannerbauer et al. 2002, A& A, 573, 473

"The most distant structure of galaxies known: a proto-cluster at $z = 4.1$," B.P. Venemans et al. 2002, A& A (letters), 569, L11

"CO line emission from high-redshift galaxies: perspectives for future centimeter telescopes," C.L. Carilli & A.W. Blain 2002, ApJ, 569, 605

"Radio-to-FIR spectral energy distribution and photometric redshifts for dusty starburst galaxies," M.S. Yun & C. L. Carilli, 2001, ApJ, 568, 88

"High resolution VLA imaging of CO(2-1) emission from two high redshift QSOs," C.L. Carilli et al. 2001, AJ, 123, 1838

"Search for radio continuum and sub-mm emission from extremely red objects," N.R. Mohan et al. 2001, A& A, 383, 440

"Detection of HI 21cm absorption in the warm neutral medium and in the outer arm of the Galaxy," K.S. Dwarakanath, C.L. Carilli, W.M. Goss 2001, ApJ, 567, 940

"Resolved nuclear CO(1-0) emission in APM08279+5255: Gravitational lensing by a naked cusp?" G.F. Lewis, C.L. Carilli, P. Papadopoulos, R.J. Ivision 2002, MNRAS, 330, L15

"The X-ray – radio alignment in the $z = 2.2$ radio galaxy PKS 1138–262," C.L. Carilli, D.E. Harris, L. Pentericci, H. Rottgering, G. Miley, and J. Kurk 2001, ApJ, in press

"Discovery of ghost cavities in Abell 2597's X-ray atmosphere," B.R. McNamara et al. 2001, ApJ (letters), 562, L149

"Radio Observations of Infrared Luminous High Redshift QSOs," C.L. Carilli et al. 2001, AJ, 122, 1679

"A 1.2mm continuum survey of high redshift PSS Quasars," A. Omont, P. Cox, F. Bertoldi, R. McMahon, C. Carilli, K. Isaak 2001, A&A, 374, 371

"PMN J0525-3343: soft X-ray spectral flattening in a blazar at z=4.4," A.C. Fabian et al. 2001, MNRAS, 323, 373

"Limits on the Accretion Rates onto Massive Black Holes in Nearby Galaxies," T. Di Matteo, C.L. Carilli, A.C. Fabian 2001, MNRAS, 323, 373

"A 250 GHz Survey of High-Redshift Quasars from the Sloan Digital Sky Survey ," C.L. Carilli et al. 2001, ApJ, 555, 625

"PMN0525–3343: Soft X-ray Spectral Flattening in a Blazar at z = 4.41," A.C. Fabian, A. Celotti, K. Iwasawa, C.L. Carilli, R.G. McMahon, W.N. Brandt, and G. Ghisellini 2000, MNRAS (letters), in press

"A Search for Clusters at High Redshift II," L. Pentericci et al. 2000, A&A, 361, L25

"Radio and Near-Infrared Identifications of Three Faint mm Sources,' F. Bertoldi, C. Carilli, K. Menten, et al. 2000, A&A, 360, 92

"VLA Radio Continuum Observations of a New Sample of High Redshift Radio Galaxies,' Pentericci, L., van Reeven, W., Carilli, C., Rottgering, H., and Miley, G. 2000, A&A (supp), 145, 121

"Ly α Emitters around 1138–262 at z = 2.2," Kurk, J.D., et al. 2000, A&A (letters), 358, 1

"Dust Emission from High Redshift QSOs," C.L. Carilli et al. 2000, ApJ (letters), 533, L13

"The Extreme Compact Starburst in MRK 273," C.L. Carilli and G.B. Taylor 2000, APJ (letters), 532, 95

"The Scatter in the Relationship between Redshift and the Radio-to-Far IR Spectral

Index," C.L. Carilli and M.S. Yun 2000, ApJ, 530, 618 (plus erratum)

"Sensitive Radio Observations of High Redshift Dust Emitting QSOs," M.S. Yun, C.L. Carilli, R. Kawabe, Tutui, S. Kohno, and Ohta 2000, ApJ, 528, 171

"The Discovery of a High-redshift Quasar without Emission Lines from Sloan Digital Sky Survey Commissioning Data," SDSS Collaboration, Xiaohui Fan, et al. 1999, ApJ (letters), 526, 57

"VLT Spectroscopy of the z = 4.11 Radio Galaxy TN J1338-1942," C. de Breuck, W. van Breugel, H. Rottgering, D. Minniti, and C. Carilli, 1999, A&A (letters), 352, 51

"High Resolution millimeter and infrared Observations of the Hotspots of Cygnus A," C.L. Carilli, J. Kurk, P. van der Werf, R. A. Perley, and G.K. Miley 1999, AJ, 118, 2581

"Detection of CO(2-1) and Radio Continuum Emission from the z = 4.4 QSO 1335-0412,' C.L. Carilli, K.M. Menten, and M.S. Yun 1999, ApJ (letters), 521, 25

"Proposed Identification of Hubble Deep Field Submillimeter Source HDF 850.1," D. Downes, et al. 1999, A&A, 347, 809

"The Starburst in the Central Kiloparsec of Markarian 231," G.B. Taylor, C. Silver, J.S. Ulvestad, and C.L. Carilli 1999, ApJ, 519, 185

"Radio Continuum Evidence for Outflow and Absorption in the Seyfert 1 Galaxy Markarian 231," J.S. Ulvestad, J.M. Wrobel, and C.L. Carilli 1998, ApJ, 516, 127

"Strong Constraints on Advection-Dominated Accretion in the Cores of Elliptical Galaxies,' T. di Matteo, A.C. Fabian, M.J. Rees, C.L. Carilli, and R. Ivison 1998, MNRAS, 305, 492

"Neutral Hydrogen 21cm Absorption at Redshift 2.636 toward MG 0414+0534," C.B. Moore, C.L. Carilli, and K.M. Menten 1999, ApJ (letters), 510, 87.

"The Radio-to-Far IR Spectral Index as a Redshift Indicator," C.L. Carilli and M.S. Yun 1999, ApJ (letters), 513, 13.

"A Cluster of Low-Redshift Ly-α Clouds toward PKS 2155-304. I. Limits on Metals and D/H," J.M. Shull, S.V. Penton, J.T. Stocke, M.K. Giroux, J.H. van Gorkom, Y.-H. Lee, and C.L. Carilli, AJ, 116, 2094.

"Detection of HI 21cm absorption by the Warm Neutral Medium," C.L. Carilli, K. Dwarakanath, and W.M. Goss 1998, ApJ (letters), 502, 79.

"An X-ray Cluster at z = 2.156?," C.L. Carilli, D.E. Harris, H.J.A. Rottgering, L. Pentericci, G.K. Miley, and M. Bremer 1998, ApJ (letters), 494, 143 [erratum: 496, L57].

"A Sub-kpc Gas Disk in Mrk 231", C.L. Carilli, J.M. Wrobel, and J. Ulvestad 1998, AJ, 115, 928.

"Deep Radio Observations of 3C324 and 3C368: Evidence for Jet-Cloud Interactions," P. Best, C. Carilli, H. Rottgering, and S. Garrington 1998, MNRAS, 299, 357.

"Redshifted Neutral Hydrogen 21cm Absorption toward Red Quasars," C.L. Carilli, K.M. Menten, M.J. Reid, M.P. Rupen, and M.-S. Yun 1998, ApJ, 494, 175.

"The radio galaxy 1138-262 at z = 2.2: a giant elliptical galaxy at the center of a proto-cluster?," L. Pentericci, H.J.A. Rottgering, G.K. Miley, C.L. Carilli, and P. McCarthy 1997,

A&A, 326, 580.

"Formation of Cavities in the X-ray Emitting Cluster Gas of Cygnus A," D.A. Clarke D.E. Harris, and C.L. Carilli 1996, MNRAS, 284, 981.

"Radio Continuum Imaging of High Redshift Radio Galaxies," C.L. Carilli, R. van Ojik, H.J. Rottgering, G.K. Miley, and W. van Breugel 1996, ApJ (Supplements), 109, 1.

"A Search for Molecular Gas in High Redshift Radio Galaxies," R. van Ojik, H. Rottgering, P. van der Werf, G. Miley, C. Carilli, K. Isaac, M. Lacy, T. Jenness, J. Sleath, A. Visser, and J. Wink 1996, A&A, 321, 389.

"Neutral Hydrogen 21cm Absorption at z = 0.67335 towards the Red Quasar 1504+377," C.L. Carilli, K. Menten, M. Reid, and M. Rupen 1996, ApJ (letters), 474, 89.

"A powerful radio galaxy at z=3.6 in a giant rotating Lyman α halo," R. van Ojik, H. Rottgering, C.L. Carilli, M.N. Bremer, G.K. Miley, and M. Macchetto 1996, A&A, 313, 25.

"The HI environment of Nearby Ly α absorbers," J.H. van Gorkom, C.L. Carilli, J.T. Stocke, E.S. Perlman, and J.M. Shull 1996, AJ, 112, 1397.

"Redshifted HI 21cm Line Observations of Damped Lyα Absorption Line Systems," C. Carilli, W. Lane, A.G. de Bruyn, R. Braun, and G. Miley 1996, AJ, 111, 1830.

"VLBA observations of PKS 1413+135: a Young Radio Galaxy," E. Perlman, C. Carilli, J. Stocke, and J. Conway 1996, AJ, 111, 1839.

"Free-Free Absorption towards NGC253: Further Evidence for High Interstellar Pressures in the Starburst Nucleus,' C.L. Carilli 1996, A&A, 305, 402.

"The Local Lyα Forest: Association of Clouds with Superclusters and Voids," J.T. Stocke, J.M. Shull, Steve Penton, Megan Donahue, and Chris Carilli 1995, ApJ, 451, 24.

"The Bizarre Structure of the z=3.4 Radio Galaxy 0902+343," C.L. Carilli 1995, A&A 298, 77.

"Multifrequency Radio Continuum Observations of NGC 253: I. Polarized Emission and the Magnetic Fields and Rotation Measures in the Disk and Halo," Rainer Beck, C.L. Carilli, M.A. Holdaway, and Uli Klein 1994, A&A, 292, 409.

"Observations of Interaction between Cluster Gas and the Radio Lobes of Cygnus A," C.L. Carilli, R.A. Perley, and D.E. Harris 1994, MNRAS, 270, 173.

"Second Epoch VLBI Observations of the Nuclear Jet in Cygnus A: Subluminal Proper Motion Measured," C.L. Carilli, Norbert Bartel, and Phillip Diamond 1994, AJ, 108, 64.

"High Dynamic Range Radio Observations of PKS1413+135: A BL Lacertae Object With a Parsec-scale Counterjet?," E.S. Perlman, J.T. Stocke, D.B. Shaffer, C.L. Carilli, and Chopo Ma 1994, ApJ (letters), 424, L69.

"Radio Continuum Polarimetric Imaging of High Redshift Radio Galaxies," C.L. Carilli, F.N. Owen, and D.E. Harris 1994, AJ, 107, 480.

"Neutral Hydrogen Absorption at Redshift 0.687 Towards the Smallest Einstein Ring," C.L. Carilli, M.P. Rupen, and Brian Yanny 1993, ApJ (letters), 412, L59.

"Discovery of Neutral Hydrogen 21 cm Absorption at Redshift 0.25 Towards PKS 1413+135," C.L. Carilli, E.S. Perlman, and J.T. Stocke 1992, ApJ (letters), 400, L13.

"Discovery of a Synchrotron Emitting Halo Around NGC 253," C.L. Carilli, M.A. Holdaway, P.T.P. Ho, and C.G. Depree 1992, ApJ (Letters), 399, L59.

"HI Imaging of Four Quasar-Galaxy Pairs: The Parent Galaxies of Low Redshift Quasar Absorption Systems," C.L. Carilli and J.H. van Gorkom 1992, ApJ, 399, 373.

"VLBI Observations of the Nuclear Jet in Cygnus A," C.L. Carilli, N. Bartel, and R. Linfield 1991, AJ, 102, 1691.

"A Multifrequency Analysis of Cygnus A: Spectral Aging in Powerful Radio Galaxies," C.L. Carilli, R.A. Perley, J.W. Dreher, and J.P. Leahy 1991, ApJ, 383, 554.

"An Inhomogeneous Reference Catalogue of Identified Intervening Heavy Element Systems in Spectra of QSOs," Donald G. York, Brian Yanny, Arlin Crotts, Chris Carilli, Etoi Garrison, and Leigh Matheson 1991, MNRAS, 250, 24.

"The Second MIT-Greenbank 5 GHz Survey," G.I. Langston, M.B. Heflin, S.R. Conner, C.L. Carilli, and B.F. Burke 1990, ApJ (Supplement), 72, 621.

"Broad and Narrow Band Imaging of the Giant Radio Galaxy Cygnus A," C.L. Carilli, Sam Conner, J.W. Dreher, and R.A. Perley 1989, AJ, 98, 513.

"MG 1654+1346: An Einstein Ring Image of a Quasar Radio Lobe," G.I. Langston, D.P. Schneider, Sam Conner, C.L. Carilli, J. Lehar, B.F. Burke, E.L. Turner, J.E. Gunn, J.H. Hewitt, and M.J. Schmidt 1989, AJ, 97, 1283.

"Discovery of the Bow Shock in Cygnus A," C.L. Carilli, R.A. Perley, and J.W. Dreher 1988, ApJ (letters), 334, L73.

"Discovery of Low Redshift Neutral Hydrogen Absorption in the Radio Spectrum of PKS 2020-370," C.L. Carilli and J.H. van Gorkom 1987, ApJ, 319, 683.

"The Faraday Rotation of Cygnus A: Magnetic Fields in Cluster Gas," J.W. Dreher, C.L. Carilli, and R.A. Perley 1987, ApJ, 316, 611.

Selected Conference Reviews

"Studying the first galaxies with ALMA," Carilli et al. 2007, in *Science with ALMA: a new era for Astrophysics*, ed. R. Bachiller (Springer: Berlin)

"HI 21cm observations of cosmic reionization," C.L. Carilli 2006, *Highlights in Astronomy, IAU 2006*, eds. Kassim and Lazio, 14, 199

"Radio astronomy from the moon: the potential for low frequency observations of cosmic reionization," C.L. Carilli, J. Hewitt, A. Loeb, 2006, Cambridge University Press, ed. M. Livio, in press

"Studies of cosmic first light using ALMA," C.L. Carilli 2006, *Science with ALMA*, Springer, ed. J. Cernicharo

"ALMA: Galaxies and AGN," C.L. Carilli 2004, in *Dusty 2004 – ALMA and Hershel*, ed. A. Wilson, ESA publications (SP-577) p. 47

"Radio observations of the first luminous objects during cosmic reionization," C.L. Carilli 2004, in *The Cool Universe*, ed. D. Alloin, ASPC, 344, 50

"The μJy radio sources," C.L. Carilli 2004, in *The role of mergers and interactions in galaxy evolution*, eds. D. Lutz & L. Tacconi 2004, Spinger

"VLBI with the Square Kilometer Array," C.L. Carilli 2005, in *Future directions in high resolution astronomy,* eds. Romney & Reid (ASP: San Francisco), 340, 560

"Molecular line emission from high redshift QSOs," C.L. Carilli 2003, in *Multiwavelength AGN surveys*, eds. Maiolino & Mujica, (World Scientific)

"HI 21cm absorption beyond the epoch of reionization," C.L. Carilli, F. Owen, N. Gnedin 2003, in *The scientific promise of the SKA*, eds. Kramer & Rawlings (SKA publications)

"Xray observations of high redshift radio galaxies," C.L. Carilli 2003, New Astro. Rev., 47, 231

"Deep Radio Surveys and High Redshift Star Forming Galaxies," C.L. Carilli, 2000, in *Starburst Galaxies at Low and High Redshift*, eds. D. Lutz and L. Tacconi (Springer-Verlag, Heidelberg)

"High Redshift Radio Galaxies: Beacons to Biased Hierarchical Galaxy Formation within Large Scale Structure,' C.L. Carilli et al., 2000, in *Gas and Galaxy Evolution,*, eds. J. Hibbard and M. Rupen (ASP, San Francisco)

"Observations of Cold Gas at High Redshift at cm Wavelengths," C.L. Carilli and K.M. Menten, 2000, in *Cold Gas and Dust and High Redshift*, ed. D. Wilner (Kluwer, Netherlands)

"Millimeter Interferometry," C.L. Carilli and J. Carlstrom 1998, in *Aperture Synthesis in Radio Astronomy II*, eds. G.B. Taylor, C.L. Carilli, and R.A. Perley (PASP: San Francisco)

"Radio Observations of High Redshift Radio Galaxies," C.L. Carilli 1997, in *The Most Distant Radio Galaxies*, eds. H. Rottgering, P. Best, and M. Lehnert (North Holland: Netherlands)

"Rotation Measures towards Extragalactic Radio Sources," C.L. Carilli 1995, in *IAU 175: Extragalactic Radio Sources,* eds. C. Fanti and R. Ekers, Kluwer Press, Dordrecht: Kluwer, p. 159

"Redshifted HI 21cm Line Observations of Damped Lyα Absorption Line Systems," C.L. Carilli 1995, in *Cold Gas at High Redshift: a Symposium to Commemorate the 25th Anniversary of the WSRT*, eds. M. Bremer, P. van der Werf, C. Carilli, and H. Rottgering, Dordrecht: Kluwer, p. 267

"The Jets in Cygnus A," C.L. Carilli, 1995, in *Energy Transport in Extragalactic Radio Sources*," eds. P. Hardee, A. Bridle, and A. Zensus, San Francisco: PASP, p. 287

"Neutral Hydrogen 21cm Quasar Absorption Line Systems,' C.L. Carilli 1994, *J. of Astrophys. and Astro. (Supplement to Vol. 16): Proceedings of the Sixth IAU Asian-Pacific Regional Meeting*, eds. V. Kapahi, N. Dadhich, G. Swarup, and J. Narlikar, p. 163.

Technical Reports

"A Radio Multi-Object Spectrograph," C.L. Carilli, G. Watts, R. Fisher 2006, GBT memo 244

"The case for high frequencies for SKA phase I: thermal science," C.L. Carilli 2006, SKA memo 70

"Estimating calibrator counts at 250 GHz using MAMBO observations of flat spectrum quasars," M. Holdaway, C. Carilli, A. Weiss, F. Bertoldi 2005, ALMA memo 545

"EVLA Phase III: A major step toward the high frequency SKA," C. Carilli 2005, EVLA memo 91

"ALMA calibration - example of scientific impact," C.L. Carilli 2004, *ALMA memo. 492*

"ALMA Calibration Source Counts at 250 GHz," M. Holdaway, C.L. Carilli & F. Bertoldi 2004, *LAMA memo. 805*

"Key science projects for the SKA," B. Gaenlser et al. 2004, *SKA Memo. 44*

"Holography status," C.L. Carilli & R.A. Perley 2003, *VLA Test memo. 224*

"SKA Concepts Designs – ISAC comments," C.L. Carilli and the ISAC 2002, *SKA Memo. Series 28*

"Encoder upgrade at the VLA: Mid-term update," C.L. Carilli, R. Broilo 2002, *VLA Test memo. 223*

"Number of cross correlations required to synthesize a 1 square deg field of view," C.L. Carilli 2002, *SKA Memo. Series 24*

"Report of Working Group 4: Galaxy Formation," C.L. Carilli 2002, *SKA Memo. Series*, No. 8

"Techniques for Sky Noise Reduction on the Max Planck Millimeter Bolometer Array," C.L. Carilli 1999, MPIfR Technical Memo.

"Tropospheric Phase Calibration," C.L. Carilli and M.A. Holdaway, 1999, *MMA Memo. Series*, No. 262.

"Calibrating the Site Testing Inteferometer," C.L. Carilli, M.A. Holdaway, and A. Roy 1998, *VLA Test Memo. Series*, No. 213.

"Radiometric Phase Calibration," C.L. Carilli, D. Sutton, and O. Lay 1998, *MMA Memo. Series*, No. 210.

"Application of Fast Switching Phase Calibration at mm Wavelengths on 33 km Baselines," C.L. Carilli and M.A. Holdaway 1997, *VLA Scientific Memo. Series*, No. 173.

"Paired Antenna Calibration at the VLA," C.L. Carilli, M.A. Holdaway, and M. Ishiguro 1996, *VLA Scientific Memo. Series*, No. 171

"Faster Switching at the VLA," C.L. Carilli and M.A. Holdaway 1996, *VLA Scientific Memo. Series*, No. 169.

"AXAF-I: Monitoring and Trends Analysis Requirements Reports," C.L. Carilli, AXAF Science Center Internal Memorandum, January 15, 1996.

"First Light on the New 92cm Broadband System at the WSRT," C.L. Carilli, A.G. de Bruyn, and A.-J. Boonstra 1994, *ASTRON/NFRA Newsletter*, No. 6, p. 1.

'Recent High z Work with the WSRT," J.N. Chengalur, Ger de Bruyn and Chris Carilli 1994, *N.F.R.A. Annual Report*, p. 25.

"Possible Algorithms to Improve the VLA's Polarization Performance," M.A. Holdaway, C.L. Carilli, and F. Owen 1992, *VLA Scientific Memo. Series,* No. 163.

"A Simple-minded Approach to Polarization Mosaics," C.L. Carilli and M.A. Holdaway 1992, *VLA Test Memo. Series,* No. 163.

"Spectral Dynamic Range at the VLA: the 3 MHz Ripple," C.L. Carilli 1991, *VLA Test Memo. Series*, No. 158.

"Box Tests, Tiltmeters, and the Viability of On-line Tiltmeter Pointing Corrections," Chris Carilli and Rick Perley 1985, *VLA Test Memo. Series,* No. 146b.

Conference Proceedings

Numerous since 1998

"The Highest Redshift Radio Galaxy Known in the Southern Hemisphere," Carlos De Breuck, Wil van Breugel, Huub Rottgering, George Miley, and Chris Carilli 1998, in "Looking Deep in the Southern Sky" eds. R.Morganti and W.J.Couch (ESO: Garching)

"Molecular Emission at High Redshift: Observations of BR1202-0725," R. Kawabe, K. Kohno, K. Ohta, and C. Carilli 1998, in *Highly Redshifted Radio Lines*, eds. C. Carilli, S. Radford, K. Menten, and G. Langston (ASP: San Francisco).

"Redshifted Neutral Hydrogen 21cm Absorption toward Red Quasars," C.L. Carilli, K.M. Menten, and C. Moore 1998, in *Highly Redshifted Radio Lines*, eds. C. Carilli, S. Radford, K. Menten, and G. Langston (ASP: San Francisco).

"Interferometric Observations of Redshifted Molecular Absorption toward Gravitational Lenses," K.M. Menten, C.L. Carilli and M.J. Reid, 1998, in Highly Redshifted Radio Lines, eds. C. Carilli, S. Radford, K. Menten, and G. Langston (ASP: San Francisco).

"The Deuterium Abundance in the z = 0.886 Molecular Absorption Line System toward PKS 1830-211," R. Shah, A. Wootten, J. Mangum, C. Carilli, and K. Menten 1998, in *Highly Redshifted Radio Lines*, eds. C. Carilli, S. Radford, K. Menten, and G. Langston (ASP: San Francisco).

"Imaging the z = 0.9 Absorbing Cloud Toward 1830-211," C.L. Carilli, K.M. Menten, M.J. Reid, M.P. Rupen, and M. Claussen 1997, in *13^{th} IAP Colloqium: Structure and Evolution of the IGM from QSO Absorption Line Systems*, eds. P. Petitjean, S. Charlot

"Imaging the pc-scale Structure in the Molecular ISM at z = 0.9 toward 1830-211,' C.L. Carilli, K.M. Menten, M.J. Reid, M.P. Rupen, and M. Claussen 1997, in *IAU Coloquium 164: Radio Emission from Galactic and Extragalactic Compact Sources*, eds. A. Zensus, J. Wrobel, and G. Taylor (Dordrecht: Kluwer)

"Application of Phase Calibration Techniques at mm Wavelengths on 33km Baselines," C.L. Carilli and M.A. Holdaway 1997, in *MM and Sub-mm Astronomy and 10mas Resolution*, eds. M. Ishiguro and R. Kawabe (Nobeyama Radio Observatory), p. 7

"Imaging the Surface of Stars at mm-wavelengths: Betelgeuse,' Jeremy Lim, C.L. Carilli, S.M White, A.J. Beasley, and R.G. Marson 1997, in *MM and Sub-mm Astronomy and 10mas*

Resolution," eds. M. Ishiguro and R. Kawabe (Nobeyama Radio Observatory), p. 39

"Resolving the Surface of Betelgeuse at mm-wavelengths' Jeremy Lim, C.L. Carilli, S.M White 1997, in *Cool Stars*, eds. A. Dupree

"PKS 1413+135: A Very Young Radio Galaxy," E. Perlman, C. Carilli, J. Stocke, and J. Conway, in *IAU 175: Extragalactic Radio Sources*, eds. C. Fanti and R. Ekers, Kluwer Press, (Dordrecht: Kluwer), p. 90

"X-ray Properties of the Nuclear Source in Cygnus A," D.E. Harris, R.A. Perley, and C.L. Carilli 1996, in *Vistas in Astronomy Vol. 40* (Pergamon: Great Britain), p. 45.

"The Effects of a High Luminosity Radio Galaxy on the ICM," D.E. Harris, D.A. Clarke, and C.L. Carilli 1996, *Rontgenstrahlung from the Universe*, eds. H. Zimmerman, J. Trumper, and H. Yorke (MPE Report 263: Garching) p. 453

"A Radio Search for High Redshift HI Absorption," J. Chengalur, A. de Bruyn, R. Braun, and C. Carilli 1996, in *Cold Gas at High Redshift*, eds. M. Bremer, P. van der Werf, H. Rottgering, and C. Carilli (Kluwer: Dordrecht), p. 279

"Discovery of a Lyman α Cloud in a Cosmic Void," J.T. Stocke, J.M. Shull, Steve Penton, Megan Donahue, and Chris Carilli 1995, *QSO Absorption Lines*, ed. G. Meylan, p. 347 (ESO: Munchen)

"The Jets in Cygnus A: from Pc- to Kpc-Scales," Carilli, C.L. 1996, in *Cygnus A: Study of a Radio Galaxy*, eds. C.L. Carilli and D.E. Harris (Cambridge: CUP), p. 76

"The Parsec-scale Jet and Counterjet in Cygnus A," B. Sorathia, N. Bartel, M. Beitenholz, and C. Carilli 1996, in *Cygnus A: Study of a Radio Galaxy*, eds. C.L. Carilli and D.E. Harris (Cambridge: CUP), p. 86

"The X-ray Emission Processes in the Hot Spots of Cygnus A," D.E. Harris and C.L. Carilli 1996 in *Cygnus A: Study of a Radio Galaxy*, eds. C.L. Carilli and D.E. Harris (Cambridge: CUP), p. 136

"The Structure and Polarization of Cygnus A at 3.6cm," R.A. Perley and C.L. Carilli 1996, in *Cygnus A: Study of a Radio Galaxy*, eds. C.L. Carilli and D.E. Harris (Cambridge: CUP), p. 168

"Low Frequency Observations of Cygnus A," N. Kassim, R. Perley, C. Carilli, D. Harris, and W. Erickson 1996, in *Cygnus A: Study of a Radio Galaxy*, eds. C.L. Carilli and D.E. Harris (Cambridge: CUP), p. 182

"The Core-Jet in the Nuclear Region of the Radio Galaxy Cygnus A," N.Bartel, B. Sorathia, M.F. Bietenholz, C.L. Carilli, and P. Diamond 1995, in *National Academy of Sciences Workshop: Recent Results from VLBI,* 92, 11371.

"The Parsec-scale Jet in Cygnus A," C. Carilli, P. Diamond, and N. Bartel 1994, in *Compact Extragalactic Radio Sources*, eds. J.A. Zensus and K. Kellerman, NRAO, Socorro, NM, p. 233.

"X-ray Detection of the Nuclear Source in the Cygnus A Galaxy," D.E. Harris, R.A. Perley, and C.L. Carilli 1994, in *IAU Symp. No. 159: AGN Across the Electromagnetic Spectrum.*

"Spatial Modeling Techniques Applied to ROSAT HRI Observations of Cygnus A,"

D.E. Harris, R.A. Perley, and C.L. Carilli 1994, in *Astronomical Data Analysis Systems and Software*.

"A Blow-out in NGC 253", C.L. Carilli, P.T.P. Ho, and M. Holdaway 1993, in *The Third Tetons Conference on the Interstellar Medium: Contributed Papers*, eds. D.J. Hollenbach and H. A. Thronson, NASA Publications.

"Spectral Aging in Cygnus A," R.A. Perley, C.L. Carilli, and J.P. Leahy 1994, in *The Second Ringberg Workshop on Extragalactic Radio Sources*, eds. H.-J. Roser and K. Meisenheimer, Springer-Verlag, Heidelberg, p. 217.

"Radio Continuum and Line Observations of Quasar-Galaxy Pairs and the Origin of Low Redshift Quasar Absorption Line Systems," C.L. Carilli, J.H. van Gorkom, E.M. Haxthausen, J.T. Stocke, and J. Salzer 1990, in *I.A.U. Colloquium No. 124: Paired and Interacting Galaxies, Contributed Papers*, eds. J. Sulentic, B. Keel, and C. Telesco, NASA, p. 473.

"Radio Observations of Quasar-Galaxy Pairs: a Study of Extended Gas in Disturbed Systems," C.L. Carilli, J.H. van Gorkom, and E.M. Haxthausen 1990, in *I.A.U. Symposium No. 144: The Interstellar Disk-Halo Connection in Galaxies, Contributed Papers*, ed. Hans Bloemen, Sterrewacht, Leiden, p. 37.

"Multiband Observations of Cygnus A: A Study of Pressure Balance in the Core of a Powerful Radio Galaxy," C.L. Carilli, Sam Conner, J.W. Dreher, and R.A. Perley 1989, in *The Interstellar Medium of External Galaxies, Contributed Papers*, eds. D.J. Hollenbach and H. A. Thronson, NASA Publications, p. 146.

"Observations of Quasar-Galaxy Pairs and the Origin of Low Redshift Quasar Absorption Line Systems," E. Haxthausen, C. Carilli, and J. van Gorkom 1989, in *The Interstellar Medium of External Galaxies, Contributed Papers*, eds. D.J. Hollenbach and H. A. Thronson, NASA Publications, p. 356.

"Resolution of the Galaxy and the Third Image of the Gravitational Lens 2016+112," G.I. Langston, C.L. Carilli, Sam Conner, M. Heflin, J. Lehar, C. Lawrence, V. Dhawan, and B.F. Burke 1989, in *Gravitational Lensing*, Eds. J. Moran, J. Hewitt, and F. Lo, Springer-Verlag, Heidelberg, p. 100.

"Cygnus A and the Williams Model," C.L. Carilli, J.W. Dreher, and R.A. Perley 1987, in *Hot Spots in Extragalactic Radio Sources*, eds. H.-J. Roser and K. Meisenheimer, Springer-Verlag, Heidelberg, p. 51.

"Cygnus A: Magnetic Fields in Radio Sources and Cluster Gas," R.A. Perley, C.L. Carilli, and J.W. Dreher 1987, in *Magnetic Fields in Extragalactic Objects*, eds. E. Asseo and D. Gresillon, Editions de Physique, Paris, p. 349.

Popular Astronomy Articles

"When constants are not Constant," C.L. Carilli 2001, Physics World, October

"Rontgenenwaarnemingen van Radiostelsels," C.L. Carilli and Eddy Enchternach 1995, *ZENIT Magazine*, May 1995, Number 5, 212.