

The Scholarship of Research and Creative Accomplishments

A. Research and Scholarly Publications

★ signifies a Penn State graduate student.

† signifies a Penn State undergraduate student.

‡ signifies a Penn State postdoctoral research associate.

Articles Published in Refereed Journals

1. ‘ROSAT PSPC observations of NGC 7469 and Ark 120’, Brandt W.N., Fabian A.C., Nandra K., Tsuruta S., 1993, *Monthly Notices of the Royal Astronomical Society*, 265, 996–1002
2. ‘Separation of foreground radiation from cosmic microwave background anisotropy using multifrequency measurements’, Brandt W.N., Lawrence C.R., Readhead A.C.S., Pakianathan J.N., Fiola T.M., 1994, *The Astrophysical Journal*, 424, 1–21
3. ‘Iron $K\alpha$ lines from ionized discs in Z-type X-ray binaries’, Brandt W.N., Matt G., 1994, *Monthly Notices of the Royal Astronomical Society*, 268, 1051–1059
4. ‘ROSAT PSPC observations of Ark 564, NGC 985, Kaz 163, Mrk 79 and RX J2256.6+0525’, Brandt W.N., Fabian A.C., Nandra K., Reynolds C.S., Brinkmann W., 1994, *Monthly Notices of the Royal Astronomical Society*, 271, 958–966
5. ‘The unusual X-ray and optical properties of the ultrasoft AGN Zwicky 159.034 (RE J 1237+264)’, Brandt W.N., Pounds K.A., Fink H., 1995, *Monthly Notices of the Royal Astronomical Society*, 273, L47–L52
6. ‘The effects of high-velocity supernova kicks on the orbital properties and sky distributions of neutron-star binaries’, Brandt W.N., Podsiadlowski Ph., 1995, *Monthly Notices of the Royal Astronomical Society*, 274, 461–484
7. ‘ROSAT observations of X-ray emissions from Jupiter during the impact of Comet Shoemaker-Levy 9’, Waite J.H., Gladstone G.R., Franke K., Lewis W.S., Fabian A.C., Brandt W.N., Na C., Link R., Haberl F., Clarke J.T., Hurley K.C., Sommer M., Fishman G.J., Rubin B.C., Bolton S., 1995, *Science*, 268, 1598–1601
8. ‘X-ray spectra of two quasars at $z > 1$ ’, Nandra K., Fabian A.C., Brandt W.N., Kunieda H., Matsuoka M., Mihara T., Ogasaka Y., Terashima Y., 1995, *Monthly Notices of the Royal Astronomical Society*, 276, 1–8
9. ‘On broad iron $K\alpha$ lines in Seyfert 1 galaxies’, Fabian A.C., Nandra K., Reynolds C.S., Brandt W.N., Otani C., Tanaka Y., Inoue H., Iwasawa K., 1995, *Monthly Notices of the Royal Astronomical Society*, 277, L11–L15
10. ‘On the high space velocity of X-ray Nova Sco 1994: Implications for the formation of its black hole’, Brandt W.N., Podsiadlowski Ph., Sigurdsson S., 1995, *Monthly Notices of the Royal Astronomical Society*, 277, L35–L40
11. ‘Soft X-ray properties of Narrow-Line Seyfert 1 galaxies’, Boller Th., Brandt W.N., Fink H., 1996, *Astronomy and Astrophysics*, 305, 53–73

12. 'ROSAT PSPC observations of the infrared quasar IRAS 13349+2438: Evidence for a warm absorber with internal dust', Brandt W.N., Fabian A.C., Pounds K.A., 1996, *Monthly Notices of the Royal Astronomical Society*, 278, 326–336
13. 'X-ray reflection in Galactic black hole candidates: Smeared edge profiles and resonant Auger destruction', Ross R.R., Fabian A.C., Brandt W.N., 1996, *Monthly Notices of the Royal Astronomical Society*, 278, 1082–1086
14. 'The broad iron K emission line in the Seyfert 2 galaxy IRAS 18325–5926', Iwasawa K., Fabian A.C., Mushotzky R.F., Brandt W.N., Awaki H., Kunieda H., 1996, *Monthly Notices of the Royal Astronomical Society*, 279, 837–846
15. 'The iron $K\alpha$ line complex in Compton-thick Seyfert 2 galaxies', Matt G., Brandt W.N., Fabian A.C., 1996, *Monthly Notices of the Royal Astronomical Society*, 280, 823–834
16. 'ROSAT PSPC and HRI observations of the composite starburst/Seyfert 2 galaxy NGC 1672', Brandt W.N., Halpern J.P., Iwasawa K., 1996, *Monthly Notices of the Royal Astronomical Society*, 281, 687–695
17. 'A powerful and highly variable off-nuclear X-ray source in the composite starburst/Seyfert 2 galaxy NGC 4945', Brandt W.N., Iwasawa K., Reynolds C.S., 1996, *Monthly Notices of the Royal Astronomical Society*, 281, L41–L45
18. 'The variable iron K emission line in MCG–6–30–15', Iwasawa K., Fabian A.C., Reynolds C.S., Nandra K., Otani C., Inoue H., Hayashida K., Brandt W.N., Dotani T., Kunieda H., Matsuoka M., Tanaka Y., 1996, *Monthly Notices of the Royal Astronomical Society*, 282, 1038–1048
19. 'The radio, optical and X-ray properties of the radio source 0927+352', Machalski J., Brandt W.N., 1996, *Monthly Notices of the Royal Astronomical Society*, 282, 1305–1312
20. 'ASCA observations of the iron K complex of Circinus X-1 near zero phase: Spectral evidence for partial covering', Brandt W.N., Fabian A.C., Dotani T., Nagase F., Inoue H., Kotani T., Segawa Y., 1996, *Monthly Notices of the Royal Astronomical Society*, 283, 1071–1082
21. 'X-ray emission from the field of the hyperluminous IRAS galaxy IRAS F15307+3252', Fabian A.C., Cutri R.M., Smith H.E., Crawford C.S., Brandt W.N., 1996, *Monthly Notices of the Royal Astronomical Society*, 283, L95–L98
22. 'A comparison of the hard ASCA spectral slopes of broad and Narrow-Line Seyfert 1 galaxies', Brandt W.N., Mathur S., Elvis M., 1997, *Monthly Notices of the Royal Astronomical Society*, 285, L25–L30
23. 'X-ray properties of AGN with extreme Fe II emission', Lawrence A., Elvis M.S., Wilkes B.J., McHardy I., Brandt W.N., 1997, *Monthly Notices of the Royal Astronomical Society*, 285, 879–890
24. 'ASCA observations of the nearby galaxies Dwingeloo 1 and Maffei 1', Reynolds C.S., Loan A.J., Fabian A.C., Makishima K., Brandt W.N., Mizuno T., 1997, *Monthly Notices of the Royal Astronomical Society*, 286, 349–357
25. 'ASCA observations of two ultraluminous IRAS galaxies: IRAS 15307+3252 and IRAS 20460+1925', Ogasaka Y., Inoue H., Brandt W.N., Fabian A.C., Kii T., Nakagawa T., Fujimoto R., Otani C., 1997, *Publications of the Astronomical Society of Japan*, 49, 179–185

26. ‘ROSAT monitoring of persistent giant and rapid variability in the Narrow-Line Seyfert 1 galaxy IRAS 13224–3809’, Boller Th., Brandt W.N., Fabian A.C., Fink H., 1997, *Monthly Notices of the Royal Astronomical Society*, 289, 393–405
27. ‘ASCA spectroscopy of IRAS 23060+0505: Penetrating the torus of a type 2 quasar with X-rays’, Brandt W.N., Fabian A.C., Takahashi K., Fujimoto R., Yamashita A., Inoue H., Ogasaka Y., 1997, *Monthly Notices of the Royal Astronomical Society*, 290, 617–622
28. ‘The extreme X-ray luminosity of the $z = 4.72$ radio-loud quasar GB 1428+4217’, Fabian A.C., Brandt W.N., McMahon R.G., Hook I.M., 1997, *Monthly Notices of the Royal Astronomical Society*, 291, L5–L7
29. ‘AX J 1749+684: A narrow emission-line galaxy with a flat X-ray spectrum’, Iwasawa K., Fabian A.C., Brandt W.N., Crawford C.S., Almaini O., 1997, *Monthly Notices of the Royal Astronomical Society*, 291, L17–L22
30. ‘Optical and X-ray properties of the RIXOS AGN: II — Emission lines’, Puchnarewicz E.M., Mason K.O., Carrera F.J., Brandt W.N., Cabrera-Guerra F., Carballo R., Hasinger G., McMahon R.G., Mittaz J.P.D., Page M.J., Perez-Fournon I., Schwobe A., 1997, *Monthly Notices of the Royal Astronomical Society*, 291, 177–202
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32. ‘Hard X-ray detection of NGC 1068 with BeppoSAX’, Matt G., Guainazzi M., Frontera F., Bassani L., Brandt W.N., Fabian A.C., Fiore F., Haardt F., Iwasawa K., Maiolino R., Malaguti G., Marconi A., Matteuzzi A., Molendi S., Perola G.C., Piraino S., Piro L., 1997, *Astronomy and Astrophysics*, 325, L13–L16
33. ‘X-ray absorption by ionized oxygen in ASCA spectra of the infrared quasar IRAS 13349+2438’, Brandt W.N., Mathur S., Reynolds C.S., Elvis M., 1997, *Monthly Notices of the Royal Astronomical Society*, 292, 407–413
34. ‘X-ray absorption in the strong Fe II, Narrow-Line Seyfert 1 galaxy Markarian 507’, Iwasawa K., Brandt W.N., Fabian A.C., 1998, *Monthly Notices of the Royal Astronomical Society*, 293, 251–256
35. ‘Detection of an X-ray periodicity in the Seyfert galaxy IRAS 18325–5926’, Iwasawa K., Fabian A.C., Brandt W.N., Kunieda H., Misaki K., Reynolds C.S., Terashima Y., 1998, *Monthly Notices of the Royal Astronomical Society*, 295, L20–L24
36. ‘The ASCA spectrum of the $z = 4.72$ blazar GB 1428+4217’, Fabian A.C., Iwasawa K., Celotti A., Brandt W.N., McMahon R.G., Hook I., 1998, *Monthly Notices of the Royal Astronomical Society*, 295, L25–L28
37. ‘BeppoSAX observations of Narrow-Line Seyfert 1 galaxies: I. Ton S180’, Comastri A., Fiore F., Guainazzi M., Matt G., Stirpe G.M., Zamorani G., Brandt W.N., Leighly K.M., Piro L., Molendi S., Parmar A.N., Siemiginowska A., Puchnarewicz E.M., 1998, *Astronomy and Astrophysics*, 333, 31–37
38. ‘Ultrasoft Narrow-Line Seyfert 1 galaxies and X-ray surveys’, Brandt W.N., Boller Th., 1998, *Astronomische Nachrichten*, 319, 7–10 and 319, 163–166

39. 'Limits on the X-ray emission from several hyperluminous IRAS galaxies', Wilman R.J., Fabian A.C., Cutri R.M., Crawford C.S., Brandt W.N., 1998, *Monthly Notices of the Royal Astronomical Society*, 300, L7–L10
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41. '1H 0419–577: A 'two state' soft X-ray Seyfert galaxy?', Guainazzi M., Comastri A., Stirpe G., Brandt W.N., Fiore F., Leighly K.M., Matt G., Molendi S., Puchnarewicz E.M., Piro L., Siemiginowska A., 1998, *Astronomy and Astrophysics*, 339, 327–336
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44. 'ROSAT HRI monitoring of extreme X-ray variability in the narrow-line quasar PHL 1092', Brandt W.N., Boller Th., Fabian A.C., Ruszkowski M., 1999, *Monthly Notices of the Royal Astronomical Society*, 303, L53–L57
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46. 'Exploratory ASCA observations of Broad Absorption Line Quasi-Stellar Objects', *Gallagher S.C., Brandt W.N., Sambruna R.M., Mathur S., Yamasaki N., 1999, *The Astrophysical Journal*, 519, 549–555
47. 'PKS 1004+13: A high-inclination, highly absorbed radio-loud QSO—The first radio-loud BAL QSO at low redshift?', Wills B.J., Brandt W.N., Laor A., 1999, *The Astrophysical Journal*, 520, L91–L94
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49. 'X-rays from the highly polarized Broad Absorption Line QSO CSO 755', Brandt W.N., Comastri A., *Gallagher S.C., Sambruna R.M., Boller Th., Laor A., 1999, *The Astrophysical Journal*, 525, L69–L72
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53. ‘On the nature of soft X-ray weak Quasi-Stellar Objects’, Brandt W.N., Laor A., Wills B.J., 2000, *The Astrophysical Journal*, 528, 637–649
54. ‘New X-ray constraints on starburst and Seyfert activity in the barred spiral galaxy NGC 1672’, †de Naray P.J., Brandt W.N., Halpern J.P., Iwasawa K., 2000, *The Astrophysical Journal*, 119, 612–619
55. ‘ROSAT HRI monitoring of X-ray variability in the Narrow-Line Seyfert 1 galaxy PKS 0558–504’, Gliozzi M., Boller Th., Brinkmann W., Brandt W.N., 2000, *Astronomy and Astrophysics*, 356, L17–L20
56. ‘A broad-band X-ray view of NGC 4945’, Guainazzi M., Matt G., Brandt W.N., Antonelli L.A., Barr P., Bassani L., 2000, *Astronomy and Astrophysics*, 356, 463–474
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62. ‘Compton-thick X-ray absorption in the Seyfert galaxies Tololo 0109–383 and ESO 138–G1’, †Collinge M.J., Brandt W.N., 2000, *Monthly Notices of the Royal Astronomical Society*, 317, L35–L39
63. ‘X-ray sources in the Hubble Deep Field detected by Chandra’, *Hornschemeier A.E., Brandt W.N., Garmire G.P., Schneider D.P., Broos P.S., Townsley L.K., Bautz M.W., Burrows D.N., Chartas G., Feigelson E.D., Griffiths R.E., Lumb D., Nousek J.A., Sargent W.L.W., 2000, *The Astrophysical Journal*, 541, 49–53

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74. ‘Detection of nuclear X-ray sources in nearby galaxies with Chandra’, Ho L.C., Feigelson E.D., Townsley L.K., Sambruna R.M., Garmire G.P., Brandt W.N., Filippenko A.V., Griffiths R.E., Ptak A.F., Sargent W.L.W., 2001, *The Astrophysical Journal*, 549, L51–L54
75. ‘On the origin of intrinsic narrow absorption lines in $z \lesssim 1$ QSOs’, *Ganguly R., †Bond N.A., Charlton J.C., Eracleous M., Brandt W.N., Churchill C.W., 2001, *The Astrophysical Journal*, 549, 133–154
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78. ‘The Chandra deep survey of the Hubble Deep Field-North area. II. Results from the Caltech Faint Field Galaxy Redshift Survey area’, *Hornschemeier A.E., Brandt W.N., Garmire G.P., Schneider D.P., Barger A.J., Broos P.S., Cowie L.L., Townsley L.K., Bautz M.W., Burrows D.N., Chartas G., Feigelson E.D., Griffiths R.E., Lumb D., Nousek J.A., Ramsey L.W., Sargent W.L.W., 2001, *The Astrophysical Journal*, 554, 742–777
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Astronomer’s Telegrams

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2. ‘Chandra detection of three enigmatic X-ray transients’, Muno M.P., Wijnands R., Wang Q.D., Park S., Brandt W.N., Bauer F.E., Wang Z. *The Astronomer’s Telegram*, 2007 February 27

B. Papers Presented at Technical and Professional Meetings

Papers were presented by W.N. Brandt unless otherwise noted.

Below there are 44 invited talks at technical and professional meetings.

Papers Presented at Meetings of the American Astronomical Society

1. ‘High resolution ASCA spectroscopy of the iron K complex of Circinus X-1 near zero phase’, 1997 June 11, The 190th Meeting of the American Astronomical Society, Winston-Salem, North Carolina (*Bulletin of the American Astronomical Society*, 29, 826)
2. ‘ASCA observations of ultrasoft Narrow-Line Seyfert 1 galaxies’, 1997 June 12, The 190th Meeting of the American Astronomical Society, Winston-Salem, North Carolina (*Bulletin of the American Astronomical Society*, 29, 846)
3. ‘RXTE/ASCA results for the Seyfert 1 Galaxy MCG–6–30–15’, 1998 June 9, The 192nd Meeting of the American Astronomical Society, San Diego, California, presented by J.C. Lee (*Bulletin of the American Astronomical Society*, 30, 855)

4. ‘Heavy and complex X-ray absorption in Markarian 6: A view through a torus atmosphere?’, 1999 January 6, The 193rd Meeting of the American Astronomical Society, Austin, Texas (*Bulletin of the American Astronomical Society*, 30, 1253)
5. ‘ASCA observations of the extreme Narrow-Line Seyfert 1 galaxies Mrk 42 and Mrk 957’, 1999 January 9, The 193rd Meeting of the American Astronomical Society, Austin, Texas, presented by S.A. Snedden (*Bulletin of the American Astronomical Society*, 30, 1383)
6. ‘Exploratory ASCA observations of Broad Absorption Line Quasi-Stellar Objects’, 1999 January 9, The 193rd Meeting of the American Astronomical Society, Austin, Texas, presented by S.C. Gallagher* (*Bulletin of the American Astronomical Society*, 30, 1413)
7. ‘ROSAT High Resolution Imager observations of the composite starburst/Seyfert 2 galaxy NGC 1672’, 1999 May 31, The 194th Meeting of the American Astronomical Society, Chicago, Illinois, presented by P.J. de Naray[†] (*Bulletin of the American Astronomical Society*, 31, 830)
8. ‘On the nature of soft X-ray weak Quasi-Stellar Objects’, 1999 May 31, The 194th Meeting of the American Astronomical Society, Chicago, Illinois (*Bulletin of the American Astronomical Society*, 31, 873)
9. ‘First results from a deep Chandra observation of the Hubble Deep Field area’, 2000 January 12, The 195th Meeting of the American Astronomical Society, Atlanta, Georgia (*Bulletin of the American Astronomical Society*, 31, 1384)
10. ‘A survey of soft X-ray weak quasi-stellar objects’, 2000 January 12, The 195th Meeting of the American Astronomical Society, Atlanta, Georgia, presented by K.B. Marshall[†] (*Bulletin of the American Astronomical Society*, 31, 1399)
11. ‘On the origin of intrinsic UV narrow absorption lines in low-redshift QSOs. I. A survey’, 2000 January 12, The 195th Meeting of the American Astronomical Society, Atlanta, Georgia, presented by N.A. Bond[†] (*Bulletin of the American Astronomical Society*, 31, 1399)
12. ‘On the origin of intrinsic UV narrow absorption lines in low-redshift QSOs. II. A multiwavelength analysis’, 2000 January 12, The 195th Meeting of the American Astronomical Society, Atlanta, Georgia, presented by R. Ganguly* (*Bulletin of the American Astronomical Society*, 31, 1400)
13. ‘Chandra imaging of Sgr A* and the Galactic center’, 2000 January 13, The 195th Meeting of the American Astronomical Society, Atlanta, Georgia, presented by F.K. Baganoff (*Bulletin of the American Astronomical Society*, 31, 1463)
14. ‘Hot gas in the core of M82: Observations with the ACIS imager array’, 2000 January 14, The 195th Meeting of the American Astronomical Society, Atlanta, Georgia, presented by R.E. Griffiths (*Bulletin of the American Astronomical Society*, 31, 1509)
15. ‘First results from a deep Chandra survey of the Hubble Deep Field area’ (invited talk), 2000 June 7, The 196th Meeting of the American Astronomical Society, Rochester, New York (*Bulletin of the American Astronomical Society*, 32, 726)
16. ‘The high-resolution X-ray spectrum of NGC 3783’, 2000 June 7, The 196th Meeting of the American Astronomical Society, Rochester, New York, presented by S. Kaspi[‡] (*Bulletin of the American Astronomical Society*, 32, 727)

17. ‘Chandra survey for AGNs in nearby galaxies’, 2000 June 7, The 196th Meeting of the American Astronomical Society, Rochester, New York, presented by R.M. Sambruna (*Bulletin of the American Astronomical Society*, 32, 733)
18. ‘X-rays from the nearest major elliptical Maffei 1 and the starburst spiral Maffei 2’, 2000 June 8, The 196th Meeting of the American Astronomical Society, Rochester, New York, presented by M. Mateen[†] (*Bulletin of the American Astronomical Society*, 32, 751)
19. ‘Compton-thick tori in two Seyferts: ESO 138-G1 and Tololo 0109-383’, 2000 June 8, The 196th Meeting of the American Astronomical Society, Rochester, New York, presented by M.J. Collinge[†] (*Bulletin of the American Astronomical Society*, 32, 753)
20. ‘First results from a ROSAT large-amplitude X-ray variability survey’, 2000 June 8, The 196th Meeting of the American Astronomical Society, Rochester, New York, presented by J.L. Donley[†] (*Bulletin of the American Astronomical Society*, 32, 760)
21. ‘Chandra imaging of Sgr A*’, 2001 January 8, The 197th Meeting of the American Astronomical Society, San Diego, California, presented by F.K. Baganoff (*Bulletin of the American Astronomical Society*, 32, 1389)
22. ‘The HET echo mapping project’, 2001 January 9, The 197th Meeting of the American Astronomical Society, San Diego, California, presented by W. Welsh (*Bulletin of the American Astronomical Society*, 32, 1458)
23. ‘The sources comprising the X-ray background in the HDF-N region observed by the Chandra X-ray Observatory’, 2001 January 10, The 197th Meeting of the American Astronomical Society, San Diego, California, presented by G.P. Garmire (*Bulletin of the American Astronomical Society*, 32, 1519)
24. ‘The AGN content in the HDF-N and flanking fields as seen by Chandra’, 2001 January 10, The 197th Meeting of the American Astronomical Society, San Diego, California, presented by D.M. Alexander[‡] (*Bulletin of the American Astronomical Society*, 32, 1520)
25. ‘The Chandra view of Sgr A-East’, 2001 January 10, The 197th Meeting of the American Astronomical Society, San Diego, California, presented by Y. Maeda[‡] (*Bulletin of the American Astronomical Society*, 32, 1535)
26. ‘Chandra observations of off-nuclear sources within Circinus’, 2001 January 10, The 197th Meeting of the American Astronomical Society, San Diego, California, presented by F.E. Bauer[‡] (*Bulletin of the American Astronomical Society*, 32, 1536)
27. ‘Source characteristics in the Chandra Deep Field-North’, 2001 June 6, The 198th Meeting of the American Astronomical Society, Pasadena, California, presented by G.P. Garmire (*Bulletin of the American Astronomical Society*, 33, 866)
28. ‘Large-amplitude X-ray outbursts from galactic nuclei: A systematic study using ROSAT archival data’, 2001 June 7, The 198th Meeting of the American Astronomical Society, Pasadena, California, presented by J.L. Donley[†] (*Bulletin of the American Astronomical Society*, 33, 898)
29. ‘The Chandra Deep Field-North Survey: Multiwavelength source properties, stacking results, and future plans’ (invited talk), 2002 January 10, The 199th Meeting of the

- American Astronomical Society, Washington, D.C. (*Bulletin of the American Astronomical Society*, 33, 1518)
30. ‘Tight constraints on the nature of the optically faint X-ray source population from the GOODS southern field’, 2003 January 6, The 201st Meeting of the American Astronomical Society, Seattle, Washington, presented by D.M. Alexander[‡] (*Bulletin of the American Astronomical Society*, 34, 1098)
 31. ‘Lower-mass black holes in the GOODS: The ULX population at $z > 0.1$ ’, 2003 January 6, The 201st Meeting of the American Astronomical Society, Seattle, Washington, presented by A.E. Hornschemeier (*Bulletin of the American Astronomical Society*, 34, 1098)
 32. ‘Two thousand X-ray stars in the central 20 pc of the Galaxy’, 2003 January 6, The 201st Meeting of the American Astronomical Society, Seattle, Washington, presented by M.P. Muno (*Bulletin of the American Astronomical Society*, 34, 1152)
 33. ‘Multiwavelength monitoring of Sgr A* during Chandra observations of multiple X-ray flares’, 2003 January 6, The 201st Meeting of the American Astronomical Society, Seattle, Washington, presented by F.K. Baganoff (*Bulletin of the American Astronomical Society*, 34, 1153)
 34. ‘Optical properties of all the X-ray sources within the GOODS HST/ACS survey of the Chandra Deep Field-South’, 2003 May 28, The 202nd Meeting of the American Astronomical Society, Nashville, Tennessee, presented by A.M. Koekemoer (*Bulletin of the American Astronomical Society*, 35, 761)
 35. ‘A sensitive Chandra observation of Markarian 231, the most luminous galaxy in the local universe’, 2004 January 6, The 203rd Meeting of the American Astronomical Society, Atlanta, Georgia, presented by S.C. Gallagher (*Bulletin of the American Astronomical Society*, 35, 1296)
 36. ‘X-ray properties of SDSS AGN at low and high redshift’, 2004 May 31, The 204th Meeting of the American Astronomical Society, Denver, Colorado, presented by I.V. Strateva (*Bulletin of the American Astronomical Society*, 36, 679)
 37. ‘X-raying active galaxies both near and far: Exploring the environments of supermassive black holes’ (invited prize talk), 2004 May 31, The 204th Meeting of the American Astronomical Society, Denver, Colorado (*Bulletin of the American Astronomical Society*, 36, 689)
 38. ‘The variable X-ray absorber of the BAL quasar UM 425’, 2004 June 2, The 204th Meeting of the American Astronomical Society, Denver, Colorado, presented by G. Chartas (*Bulletin of the American Astronomical Society*, 36, 768)
 39. ‘Examining the nature of the optically variable, X-ray undetected GOODS sources’, 2005 January 11, The 205th Meeting of the American Astronomical Society, San Diego, California, presented by A.T. Steffen
 40. ‘GOODS optically variable galaxy nuclei and their multiwavelength properties’, 2005 January 13, The 205th Meeting of the American Astronomical Society, San Diego, California, presented by N.A. Grogin

41. 'Properties of the dust in the IRAS 13349+2438 warm absorber', 2005 May 30, The 206th Meeting of the American Astronomical Society, Minneapolis, Minnesota, presented by S.M. Linder
42. 'Outflow signatures in highly resolved X-ray spectra of Circinus X-1', 2005 June 1, The 206th Meeting of the American Astronomical Society, Minneapolis, Minnesota, presented by N.S. Schulz
43. 'Cosmic feedback: Constraining AGN outflows', 2006 January 9, The 207th Meeting of the American Astronomical Society, Washington, D.C., presented by S.C. Gallagher
44. 'The high redshift Universe with Constellation-X', 2006 January 9, The 207th Meeting of the American Astronomical Society, Washington, D.C., presented by F.E. Bauer
45. 'A Chandra investigation of the peculiar PG 1004+130', 2006 January 9, The 207th Meeting of the American Astronomical Society, Washington, D.C., presented by B.P. Miller^{*}
46. 'AGN science with the Large Synoptic Survey Telescope', 2006 January 9, The 207th Meeting of the American Astronomical Society, Washington, D.C.
47. 'Constraining the redshift evolution of off-nuclear X-ray sources using the Chandra Deep Fields', 2006 January 12, The 207th Meeting of the American Astronomical Society, Washington, D.C., presented by B.D. Lehmer^{*}
48. 'The hard X-ray spectral slope as an accretion-rate indicator in radio-quiet active galactic nuclei', 2007 January 7, The 209th Meeting of the American Astronomical Society, Seattle, Washington, presented by O. Shemmer[†]
49. 'Searching for the sources responsible for the unresolved 6–8 keV cosmic X-ray background', 2007 January 7, The 209th Meeting of the American Astronomical Society, Seattle, Washington, presented by A.T. Steffen[†]
50. 'Probing faint active galaxies at redshifts 6–7 and above', 2007 January 7, The 209th Meeting of the American Astronomical Society, Seattle, Washington, presented by A.M. Koekemoer
51. 'AGN science with the Large Synoptic Survey Telescope', 2007 January 8, The 209th Meeting of the American Astronomical Society, Seattle, Washington
52. 'An X-ray, infrared, and submillimeter flare of Sagittarius A*', 2007 January 8, The 209th Meeting of the American Astronomical Society, Seattle, Washington, presented by D.P. Marrone
53. 'Modes of star formation in an early universe laboratory: An HST/ACS survey of Hickson Compact Groups', 2007 January 8, The 209th Meeting of the American Astronomical Society, Seattle, Washington, presented by J.C. Charlton
54. 'Multiwavelength properties of radio-loud quasars', 2007 January 9, The 209th Meeting of the American Astronomical Society, Seattle, Washington, presented by B.P. Miller^{*}
55. 'Lost and found: Another missed Type II In SN, CG X-2', 2007 January 9, The 209th Meeting of the American Astronomical Society, Seattle, Washington, presented by F.E. Bauer

56. 'Discovery of variable iron fluorescence from reflection nebulae in the Galactic Center', 2007 January 10, The 209th Meeting of the American Astronomical Society, Seattle, Washington, presented by M.P. Muno
57. 'Multi-year absorber variation in broad absorption line quasars', 2007 May 31, The 210th Meeting of the American Astronomical Society, Honolulu, Hawaii, presented by R.R. Gibson[‡]
58. 'Active galaxy science with the Large Synoptic Survey Telescope', 2008 January 11, The 211th Meeting of the American Astronomical Society, Austin, Texas
59. 'Multiwavelength insights into the nature of weak emission-line quasars at high redshift', 2009 January 5, The 213th Meeting of the American Astronomical Society, Long Beach, California, presented by O. Shemmer
60. 'The UV and X-ray properties of a large, diverse sample of optically selected quasars', 2009 January 6, The 213th Meeting of the American Astronomical Society, Long Beach, California, presented by J. Wu^{*}
61. 'Active galaxy science with the Large Synoptic Survey Telescope', 2009 January 6, The 213th Meeting of the American Astronomical Society, Long Beach, California
62. 'AGN science with the LSST', 2010 January 4, The 215th Meeting of the American Astronomical Society, Washington, D.C., presented by G.T. Richards
63. 'LSST observatory system and science opportunities', 2010 January 4, The 215th Meeting of the American Astronomical Society, Washington, D.C., presented by M.A. Strauss
64. 'Multiwavelength studies of X-ray sources in the Chandra Deep Fields', 2010 January 4, The 215th Meeting of the American Astronomical Society, Washington, D.C., presented by B. Luo^{*}
65. 'The X-ray properties of the optically brightest mini-BAL quasars from the Sloan Digital Sky Survey Data Release 5', 2010 January 4, The 215th Meeting of the American Astronomical Society, Washington, D.C., presented by M.L. Comins^{*}
66. 'Confirmation of a near-relativistic wind in the $z = 3.91$ quasar APM 08279+5255', 2010 January 4, The 215th Meeting of the American Astronomical Society, Washington, D.C., presented by G. Chartas
67. 'X-ray emission from optically selected radio-intermediate and radio-loud quasars', 2010 January 5, The 215th Meeting of the American Astronomical Society, Washington, D.C., presented by B.P. Miller^{*}
68. 'The optical to mid-infrared spectral energy distributions of weak emission-line quasars', 2010 January 5, The 215th Meeting of the American Astronomical Society, Washington, D.C., presented by R.A. Lane
69. 'Understanding the growth and evolution of supermassive black holes with the Wide Field X-ray Telescope', 2010 January 6, The 215th Meeting of the American Astronomical Society, Washington, D.C., presented by G.R. Sivakoff
70. 'X-ray spectral characterization of a complete sample of Swift BAT AGNs', 2010 January 7, The 215th Meeting of the American Astronomical Society, Washington, D.C., presented by R.V. Vasudevan[‡]

71. ‘Relativistic hotspots in FR II radio sources’, 2011 January 10, The 217th Meeting of the American Astronomical Society, Seattle, Washington, presented by A.M. Chartrand
72. ‘Broad absorption line variability in radio-loud quasars’, 2011 January 10, The 217th Meeting of the American Astronomical Society, Seattle, Washington, presented by C. Welling
73. ‘Weak-line quasars at high redshift: Extremely high accretion rates or anemic broad-line regions?’, 2011 January 11, The 217th Meeting of the American Astronomical Society, Seattle, Washington, presented by O. Shemmer
74. ‘Did weak-line quasars just begin an active phase?’, 2011 January 11, The 217th Meeting of the American Astronomical Society, Seattle, Washington, presented by R.M. Plotkin
75. ‘AGN science with LSST’, 2011 January 11, The 217th Meeting of the American Astronomical Society, Seattle, Washington, presented by R.R. Gibson
76. ‘Exploratory X-ray monitoring of high-redshift radio-quiet quasars’, 2012 January 9, The 219th Meeting of the American Astronomical Society, Austin, Texas, presented by O. Shemmer
77. ‘An X-ray study of galaxy evolution from infancy to mid-life: What the deepest X-ray stacking of $1 < z < 4$ star-forming galaxies reveals’, 2012 January 9, The 219th Meeting of the American Astronomical Society, Austin, Texas, presented by A. Basu-Zych
78. ‘Low-luminosity blazars in WISE: A mid-infrared view of unification’, 2012 January 9, The 219th Meeting of the American Astronomical Society, Austin, Texas, presented by R.M. Plotkin
79. ‘No quasar left behind’, 2012 January 10, The 219th Meeting of the American Astronomical Society, Austin, Texas, presented by C. MacLeod

Papers Presented at Other Meetings

1. ‘Multifrequency foreground removal from cosmic microwave background anisotropy searches’, 1993 April 14, American Physical Society Annual Meeting, Washington, D.C.
2. ‘A large X-ray outburst from the ultrasoft active galaxy Zwicky 159.034’, 1995 September 27, Röntgenstrahlung from the Universe Conference, Würzburg, Germany
3. ‘High velocity supernova kicks and their effects on the orbital properties and sky distributions of neutron star and black hole binaries’, 1995 July 13, NATO Advanced Study Institute on Evolutionary Processes in Binary Stars, Cambridge, United Kingdom
4. ‘ASCA observations of the iron K complex of Circinus X-1 near zero phase’, 1996 March 13, X-ray Imaging and Spectroscopy of Cosmic Hot Plasmas, Tokyo, Japan
5. ‘X-ray properties of Narrow-Line Seyfert 1 galaxies’, 1996 May 1, 1996 Meeting of the American Astronomical Society High Energy Astrophysics Division, San Diego, California
6. ‘ASCA spectroscopy of Circinus X-1 near zero phase’, 1996 October 1, Cambridge High Throughput X-ray Spectroscopy Workshop, Cambridge, Massachusetts

7. ‘Ultrasoft Seyferts: Narrow-Line Seyfert 1 galaxies’ (invited talk), 1996 June 12, X-rays and Gamma-rays from Accreting Black Holes, Koninki, Poland
8. ‘Spectroscopy of the iron K complex of Circinus X-1’, 1997 April 2, ASCA Cherry Blossom Conference, Washington, D.C.
9. ‘ASCA spectroscopy of IRAS 23060+0505: Penetrating the torus of a type 2 quasar with X-rays’, 1997 April 2, ASCA Cherry Blossom Conference, Washington, D.C.
10. ‘Ultrasoft Seyferts in X-ray surveys’, 1997 June 18, Potsdam X-ray Surveys Conference, Potsdam, Germany
11. ‘Ultrasoft Narrow-Line Seyfert 1 galaxies: Studying an extreme of Seyfert activity’ (invited talk), 1997 November 6, 1997 Meeting of the American Astronomical Society High Energy Astrophysics Division, Estes Park, Colorado
12. ‘Ultrasoft Narrow-Line Seyfert 1 galaxies: What physical parameter ultimately drives the structure and kinematics of their broad line regions?’ (invited talk), 1998 March 23, Structure and Kinematics of Quasar Broad Line Regions, Lincoln, Nebraska
13. ‘Ultrasoft Narrow-Line Seyfert 1 galaxies: A review of recent progress’ (invited talk), 1998 July 2, High-Energy Processes in Accreting Black Holes, Gräfvallen, Sweden
14. ‘Exploratory ASCA and SAX observations of Broad Absorption Line Quasi-Stellar Objects’, 1999 April 13, 1999 Meeting of the American Astronomical Society High Energy Astrophysics Division, Charleston, South Carolina
15. ‘Ultrasoft active galaxies: An extreme of accretion onto supermassive black holes’, 1999 July 8, International Astronomical Union Symposium 195: Highly Energetic Physical Processes and Mechanisms for Emissions from Astrophysical Plasmas, Bozeman, Montana
16. ‘X-ray absorption in radio-quiet quasars’ (invited talk), 1999 September 10, X-ray Astronomy 1999: Stellar Endpoints, AGN and the X-ray Background, Bologna, Italy
17. ‘Observational similarities and potential connections between luminous ultrasoft Narrow-Line Seyfert 1s and Broad Absorption Line QSOs’ (invited talk), 1999 December 10, Observational and Theoretical Progress in the Study of Narrow-Line Seyfert 1 Galaxies, Bad Honnef, Germany
18. ‘The X-ray properties of $z > 4$ quasars’, 2000 June 26, Advanced Lectures on the Starburst-AGN Connection, Tonantzintla, Mexico
19. ‘Trying to peer through the clouds: Hard X-ray observations of soft X-ray weak AGN’, 2000 June 26, Advanced Lectures on the Starburst-AGN Connection, Tonantzintla, Mexico, presented by S.C. Gallagher*
20. ‘X-ray emission from galaxies in the Hubble Deep Field-North as detected by Chandra: Implications for star formation and AGN activity’, 2000 June 26, Advanced Lectures on the Starburst-AGN Connection, Tonantzintla, Mexico, presented by A.E. Hornschemeier*
21. ‘The high-resolution X-ray spectrum of NGC 3783’, 2000 June 26, Advanced Lectures on the Starburst-AGN Connection, Tonantzintla, Mexico, presented by S. Kaspi[‡]

22. 'Hard X-ray observations of soft X-ray weak AGN', 2000 September 7, X-ray Astronomy 2000, Palermo, Italy, presented by S.C. Gallagher*
23. 'Chandra detects X-ray emission from Sgr A*', 2000 November 6, 2000 Meeting of the American Astronomical Society High Energy Astrophysics Division, Honolulu, Hawaii, presented by F.K. Baganoff
24. 'The high-resolution X-ray spectra of NGC 3783 and NGC 4051', 2000 November 6, 2000 Meeting of the American Astronomical Society High Energy Astrophysics Division, Honolulu, Hawaii, presented by S. Kaspi[‡]
25. 'Chandra HETGS observations of the Seyfert 2 galaxy Circinus', 2000 November 6, 2000 Meeting of the American Astronomical Society High Energy Astrophysics Division, Honolulu, Hawaii, presented by R.M. Sambruna
26. 'Chandra snapshot survey of nearby galaxies', 2000 November 7, 2000 Meeting of the American Astronomical Society High Energy Astrophysics Division, Honolulu, Hawaii, presented by A. Ptak
27. 'The discovery of broad P Cygni X-ray lines from Circinus X-1 with the Chandra HETGS', 2000 November 8, 2000 Meeting of the American Astronomical Society High Energy Astrophysics Division, Honolulu, Hawaii
28. 'The $\log N$ - $\log S$ relation for the HDF-N region as observed by the Chandra X-ray Observatory', 2000 November 8, 2000 Meeting of the American Astronomical Society High Energy Astrophysics Division, Honolulu, Hawaii, presented by G.P. Garmire
29. 'X-ray emission from galaxies in the HDF-N area as detected by Chandra: Source identification for objects making the hard X-ray background', 2000 November 8, 2000 Meeting of the American Astronomical Society High Energy Astrophysics Division, Honolulu, Hawaii, presented by A.E. Hornschemeier*
30. 'Off-source fluctuation analysis of the deep Chandra observation on the Hubble Deep Field', 2000 November 8, 2000 Meeting of the American Astronomical Society High Energy Astrophysics Division, Honolulu, Hawaii, presented by T. Miyaji
31. 'Chandra X-Ray study of Sgr A-East', 2000 November 9, 2000 Meeting of the American Astronomical Society High Energy Astrophysics Division, Honolulu, Hawaii, presented by Y. Maeda
32. 'X-raying active galaxies with the new generation of X-ray observatories: Ionized outflows and high-redshift studies' (invited talk), 2001 March 7, New Century of X-ray Astronomy, Yokohama, Japan
33. 'Results from the Chandra deep survey of the Hubble Deep Field-North area' (invited talk), 2001 July 17, The 113th Annual Meeting of the Astronomical Society of the Pacific (Symposium on The High-Energy Universe at Sharp Focus: Chandra Science), St. Paul, Minnesota, presented by A.E. Hornschemeier*
34. 'The Chandra Deep Field-North Survey' (invited talk), 2001 September 5, Two Years of Science with Chandra, Washington, D.C.
35. 'Chandra and XMM-Newton observations of the highest redshift quasars: X-rays from the dawn of the modern Universe' (invited talk), 2001 December 5, X-ray Spectroscopy of Active Galactic Nuclei with Chandra and XMM-Newton, Garching, Germany

36. ‘The Chandra Deep Field-North Survey and the cosmic X-ray background’ (invited talk), 2002 February 20, Royal Society of London Discussion Meeting on X-ray Astronomy in the New Millennium, London, United Kingdom
37. ‘Grating X-ray spectroscopy of high-velocity outflows from active galaxies and X-ray binaries’ (invited talk), 2002 June 4, The 16th International Conference on Spectral Line Shapes, Berkeley, California
38. ‘Deep surveys of the cosmic X-ray background’ (invited talk), 2002 July 9, Making Light of Gravity: MJR60, Cambridge, United Kingdom
39. ‘X-rays from the first massive black holes’ (solicited talk), 2002 October 10, New X-ray Results from Clusters of Galaxies and Black Holes: 34th COSPAR Scientific Assembly, Houston, Texas
40. ‘The X-ray view of NGC 4261 and NGC 6251’, 2003 March 23–26, 2003 Meeting of the American Astronomical Society High Energy Astrophysics Division, Mount Tremblant, Canada, presented by M. Gliozzi
41. ‘Probing the complex and variable absorption of Markarian 6 with XMM-Newton’, 2003 March 23–26, 2003 Meeting of the American Astronomical Society High Energy Astrophysics Division, Mount Tremblant, Canada, presented by S. Immler[‡]
42. ‘The cosmic X-ray background and results from the 2 Ms Chandra Deep Field-North survey’ (invited talk), 2003 March 25, 2003 Meeting of the American Astronomical Society High Energy Astrophysics Division, Mount Tremblant, Canada
43. ‘Chandra and XMM-Newton observations reveal the relativistic winds of quasars APM 08279+5255 and PG 1115+080’, 2003 March 26, 2003 Meeting of the American Astronomical Society High Energy Astrophysics Division, Mount Tremblant, Canada, presented by G. Chartas
44. ‘X-rays from the first massive black holes: Current status and future prospects’, 2003 May 31, The First Stars II, State College, Pennsylvania
45. ‘Chandra and XMM-Newton surveys of the highest redshift active galaxies’ (invited talk), 2003 July 1, The Guillermo Haro Workshop on AGN Surveys, Tonantzintla, Mexico
46. ‘X-raying active galaxies found (and missed?) by the SDSS’ (invited talk), 2003 July 28, AGN Physics with the Sloan Digital Sky Survey, Princeton, New Jersey
47. ‘X-ray survey results on active galaxy physics and evolution’ (invited talk), 2003 December 5, Physics of Active Galactic Nuclei at all Scales, Santiago, Chile
48. ‘X-raying active galaxies: Exploring the environments of supermassive black holes’ (invited talk), 2004 March 27, Spring 2004 Joint Meeting of the New England Sections of the American Association of Physics Teachers and the American Physical Society, Exeter, New Hampshire
49. ‘X-ray surveys and wide-field optical/near-infrared imaging’ (invited talk), 2004 May 17, Wide-Field Imaging from Space, Berkeley, California
50. ‘X-rays from the first massive black holes’ (invited talk), 2004 June 21, Growing Black Holes: Accretion in a Cosmological Context, Garching, Germany

51. 'Formation and evolution of supermassive black holes and their relationships to host galaxies' (invited talk), 2005 February 24, Meeting on a Joint Constellation-X and XEUS Mission, Cambridge, Massachusetts
52. 'X-raying active galaxies both near and far: Exploring the environments of supermassive black holes' (invited talk), 2005 April 18, The April 2005 Meeting of the American Physical Society, Tampa, Florida
53. 'Persistence and change of AGN X-ray emission over cosmic time: Results from deep and serendipitous surveys' (invited talk), 2005 May 26, Superunification of Active Galactic Nuclei: Black Hole Mass, Spin, and Accretion Rate, Elba, Italy
54. 'HET observations of active galaxies: Supporting X-ray surveys and first results from long-term reverberation mapping', 2005 June 20, Hobby-Eberly Telescope Science Workshop, University Park, Pennsylvania
55. 'Supermassive black holes and the cosmic X-ray background radiation' (invited talk), 2006 February 17, The 2006 Annual Meeting of the American Association for the Advancement of Science, St. Louis, Missouri
56. 'Active galactic nuclei: Making the most of the Great Observatories' (invited talk), 2006 May 23, Making the Most of the Great Observatories, Pasadena, California
57. 'At the edge of the X-ray universe: Results from the deepest extragalactic surveys' (invited talk), 2006 October 11, At the Edge of the Universe, Sintra, Portugal
58. 'Deep-survey constraints on X-ray outbursts from galactic nuclei', 2006 November 6, Chandra X-ray Center Workshop on Extragalactic X-ray Surveys, Cambridge, Massachusetts
59. 'Active galaxy physics and demography with the Large Synoptic Survey Telescope', 2006 December 6, Large Synoptic Survey Telescope All-Hands Meeting—2006, Menlo Park, California
60. 'Active galaxy science possibilities for Swift: BAT source follow-up and variability studies' (invited talk), 2007 May 1, What Next for Swift? Charting the Future for the World's Most-Responsive Space Astrophysics Observatory, State College, Pennsylvania
61. 'Deep cosmological X-ray surveys' (invited talk), 2007 June 14, 40 Years of X-ray Astronomy: Workshop in Honor of Gordon Garmire's 70th Birthday, State College, Pennsylvania
62. 'The history of active galaxies: Points of light in a dark universe' (invited talk), 2007 July 20, Galaxy Growth in a Dark Universe, Heidelberg, Germany
63. 'Recent results from the deepest Chandra surveys: Adventuring through the distant X-ray universe' (invited talk), 2008 April 2, 2008 Meeting of the American Astronomical Society High Energy Astrophysics Division, Los Angeles, California
64. 'Recent results from the Chandra Deep Field surveys', 2008 April 13, The April 2008 Meeting of the American Physical Society, St. Louis, Missouri
65. 'Exploring the high-redshift X-ray universe: Results from snapshot to ultra-deep surveys' (invited talk), 2008 May 30, The X-ray Universe 2008, Granada, Spain

66. 'Recent results from the deepest X-ray surveys: Adventuring through the distant X-ray universe' (invited talk), 2008 July 21, Putting Gravity to Work—From Black Holes to Galaxy Clusters: ACF60, Cambridge, United Kingdom
67. 'X-raying the winds of luminous active galaxies' (invited talk), 2009 June 1, The Monster's Fiery Breath: Feedback in Galaxies, Groups, and Clusters, Madison, Wisconsin
68. 'Black-hole ecology in the distant universe' (invited talk), 2009 July 8, Perspectives of High Energy Astrophysics, Garching, Germany
69. 'Recent results from the deepest X-ray surveys: Adventuring through the distant X-ray universe' (invited talk), 2009 July 13, The 12th Marcel Grossmann Meeting on General Relativity, Paris, France
70. 'Supermassive black hole growth over cosmic time: X-ray constraints on the demographics, physics, and ecology of active galaxies' (invited talk), 2009 September 22, Chandra's First Decade of Discovery, Boston, Massachusetts
71. 'A decade of extragalactic surveys with Chandra and XMM-Newton: The demography, physics, and ecology of growing supermassive black holes' (invited talk), 2010 January 8, The X-ray Astronomy Revolution: The Ongoing Impact of XMM-Newton and Chandra (Specialist Discussion Meeting of the Royal Astronomical Society), London, United Kingdom
72. 'Supermassive black-hole ecology through the galaxy-formation epoch: New constraints from the Chandra Deep Fields', 2010 February 19, Formation and Evolution of Black Holes, Aspen, Colorado
73. 'Constraining active-galaxy feedback and black-hole vs. bulge growth through the galaxy formation era: New results from the Chandra Deep Fields', 2010 June 3, Cosmic Chemical Evolution, St. Michaels, Maryland
74. 'Investigating the growth of the first supermassive black holes with the International X-ray Observatory' (invited talk), 2010 June 10, The First Galaxies, Quasars, and Gamma-Ray Bursts, State College, Pennsylvania
75. 'Large-scale investigations of quasar winds with the Sloan Digital Sky Survey-III', 2010 June 23, Sloan Digital Sky Survey-III Quasar and Lyman-Alpha Forest Workshop, Pittsburgh, Pennsylvania
76. 'Black-hole ecology in the distant universe: Results from cosmological X-ray surveys' (invited talk), 2010 July 27, What Drives the Growth of Black Holes?, Durham, United Kingdom
77. 'Supermassive black-hole ecology in the Chandra Deep Fields', 2011 April 9, 31st Annual Central Pennsylvania Consortium Astronomers Meeting, Lancaster, Pennsylvania
78. 'The LSST Deep-Drilling Fields', 2011 June 13, Very Wide Field Surveys in the Light of Astro 2010, Baltimore, Maryland
79. 'Active galaxies over cosmic time: The demography, physics, and ecology of growing supermassive black holes as revealed by X-ray surveys' (invited talk), 2011 July 22, Black Hole Astrophysics: Tales of Power and Destruction, Winchester, United Kingdom

80. ‘The future of high-energy astrophysics: Prospects for supermassive black hole discoveries’ (invited talk), 2011 September 9, 2011 Meeting of the American Astronomical Society High Energy Astrophysics Division, Newport, Rhode Island
81. ‘Broad absorption line variability on multi-year timescales: Current results and future SDSS-III prospects’, 2011 October 16, Active Galactic Nuclei Winds in Charleston, Charleston, South Carolina
82. ‘Broad absorption line quasars with redshifted troughs’, 2012 January 4, Baryon Oscillation Spectroscopic Survey Meeting—2012, New York, New York

C. Participation in and Description of Seminars and Workshops

Papers were presented by W.N. Brandt unless otherwise noted.

1. High-Energy Phenomena Near Black Holes, 1993 July 8, Koninki, Poland, Role: Student participant
2. Leicester Workshop on New Results from ROSAT and ASCA, 1995 June 1, Leicester, United Kingdom, Role: Presented a talk on ‘An X-ray outburst from Zwicky 159.034’
3. The Seventh Annual New England Regional Quasar/AGN Meeting, 1997 May 22, Haystack Observatory in Westford, Massachusetts, Role: Presented a talk on ‘Recent ASCA and ROSAT results on ultrasoft Narrow-Line Seyfert 1 galaxies’
4. The Royal Astronomical Society Specialist Discussion Meeting on Galactic Centers, 1997 October 10, London, United Kingdom, Role: My research on the X-ray properties of the Local Group galaxy IC 10 was presented, presented by M.J. Ward (co-leading author with Ward; *The Observatory*, 118, 62)
5. The Constellation-X Workshop on the High-Redshift X-ray Universe, 2004 December 9, Baltimore, Maryland, Role: Presented a talk on ‘X-rays from the highest redshift AGN and prospects for Constellation-X’ and worked to determine high-redshift science goals for Constellation-X
6. JANUS Kick-Off Meeting, 2007 October 23, State College, Pennsylvania, Role: Presented a talk on ‘X-ray outbursts from galactic nuclei: Rate constraints and JANUS science’
7. Constellation-X Facility Science Team Meeting, 2008 February 21–22, Boulder, Colorado, Role: Presented a talk on ‘Exploring the high-redshift X-ray universe with Constellation-X’
8. First Pittsburgh Large Synoptic Survey Telescope Symposium, 2008 April 28, Pittsburgh, Pennsylvania, Role: Presented a talk on ‘Active galaxy physics and demography with the Large Synoptic Survey Telescope’ and led associated discussion (by videoconference)
9. International X-ray Observatory Facility Science Team Meeting, 2008 August 20–22, Greenbelt, Maryland, Role: Presented a talk on ‘Results from the high-redshift science panel of the International X-ray Observatory’

10. The Friday Harbor Labs Science Book Workshop, 2008 December 10–15, Friday Harbor, Washington, Role: Worked on the Science Book for the Large Synoptic Survey Telescope
11. International X-ray Observatory Facility Science Team Meeting, 2009 January 28–29, Cambridge, Massachusetts, Role: Presented a talk on ‘The roles of black holes in the high-redshift universe’
12. Baryon Oscillation Spectroscopic Survey (BOSS) Meeting on Quasars and Active Galactic Nuclei, 2011 November 3–5, Princeton, New Jersey, Role: Presented a talk on ‘A large-scale investigation of quasar wind variability: Project motivation, overview, and general results’

D. Speaking Engagements at Universities, Colleges, and National Labs

Talks were presented by W.N. Brandt.

1. ‘Galactic foreground removal from noisy cosmic microwave background anisotropy measurements’, 1993 November 12, Cambridge University Institute of Astronomy, Cambridge, United Kingdom
2. ‘X-ray absorption in the infrared quasar IRAS 13349+2438’, 1995 December 13, Harvard-Smithsonian Center for Astrophysics High Energy Astrophysics Division, Cambridge, Massachusetts
3. ‘A dusty ionized absorber in the infrared quasar IRAS 13349+2438’, 1996 February 14, University of Durham Astronomy Department, Durham, United Kingdom
4. ‘The remarkable X-ray properties of two WFC Seyfert galaxies’, 1996 February 16, University of Leicester X-ray Astronomy Group, Leicester, United Kingdom
5. ‘Recent X-ray results on ultrasoft Narrow-Line Seyfert 1 galaxies’, 1996 July 30, Mullard Space Science Laboratory Astrophysics Group (part of University College, London), Dorking, Surrey, United Kingdom
6. ‘X-ray spectroscopy and variability studies of ultrasoft Seyfert galaxies’, 1997 February 25, Pennsylvania State University Astronomy & Astrophysics Department Colloquium, University Park, Pennsylvania
7. ‘Ultrasoft Narrow-Line Seyfert 1 galaxies: Studying an extreme of Seyfert activity’, 1997 October 21, University of Texas at Austin Astronomy Department Colloquium, Austin, Texas
8. ‘New results on ultrasoft Narrow-Line Seyfert 1 galaxies’, 1997 December 8, Goddard Space Flight Center X-ray Astrophysics Branch Colloquium, Greenbelt, Maryland
9. ‘X-ray connections to the primary Boroson & Green eigenvector’, 1998 January 7, Cambridge University Institute of Astronomy, Cambridge, United Kingdom
10. ‘Ultrasoft active galaxies: An extreme of accretion onto supermassive black holes’, 1998 October 16, Montana State University Physics Department Colloquium, Bozeman, Montana

11. 'X-ray probes of the black hole regions of ultrasoft Seyferts', 1999 March 5, Carnegie Mellon Astrophysics Group and University of Pittsburgh Astronomy & Astrophysics Group, Pittsburgh, Pennsylvania
12. 'X-ray absorption in radio-quiet QSOs', 1999 November 1, University of Colorado Astronomy Department Colloquium, Boulder, Colorado
13. 'X-ray absorption in Broad Absorption Line QSOs and soft X-ray weak QSOs', 2000 February 8, Princeton University Astronomy Department Colloquium, Princeton, New Jersey
14. 'X-raying the nuclear material of radio-quiet QSOs', 2000 April 17, University of Virginia Astronomy Department Colloquium, Charlottesville, Virginia
15. 'X-ray spectroscopy of active galaxy outflows with Chandra', 2000 September 25, University of Rochester Physics & Astronomy Department Colloquium, Rochester, New York
16. 'X-raying radio-quiet active galaxies with the new generation of X-ray observatories', 2000 December 4, Columbia University Colloquium on the Results of Modern High-Energy Astrophysics, New York, New York
17. 'Grating spectroscopy of Seyfert galaxies with Chandra and XMM-Newton', 2001 January 19, Yale University Astronomy Department Colloquium, New Haven, Connecticut
18. 'New results from the Chandra Deep Field-North Survey', 2001 July 31, Goddard Space Flight Center X-ray Astrophysics Branch Colloquium, Greenbelt, Maryland
19. 'The Chandra Deep Field-North Survey', 2001 November 8, Steward Observatory and National Optical Astronomy Observatory Joint Colloquium, Tucson, Arizona
20. 'The Chandra Deep Field-North Survey', 2002 February 6, Space Telescope Science Institute Colloquium, Baltimore, Maryland
21. 'The Chandra Deep Field-North Survey', 2002 February 18, Oxford University Department of Astrophysics, Oxford, United Kingdom
22. 'X-ray observations of the highest redshift quasars', 2002 May 3, Johns Hopkins University and Space Telescope Science Institute Starburst Journal Club, Baltimore, Maryland
23. 'The Chandra Deep Field-North survey: Implications for active galaxy evolution', 2003 April 14, Canadian Institute for Theoretical Astrophysics Colloquium, Toronto, Canada
24. 'The Chandra Deep Field-North survey', 2003 April 28, Boston University Department of Astronomy, Boston, Massachusetts
25. 'Results from the Chandra Deep Field-North', 2003 October 9, Ohio State University Department of Astronomy, Columbus, Ohio
26. 'X-rays from the first supermassive black holes: Current status and future prospects', 2004 April 14, Goddard Space Flight Center X-ray Astrophysics Branch Colloquium, Greenbelt, Maryland
27. 'X-rays from the first massive black holes', 2004 October 21, University of Kentucky Astronomy Group, Lexington, Kentucky

28. 'Deep extragalactic surveys with Chandra and XMM-Newton: Keyhole views of the distant X-ray universe', 2004 October 22, University of Kentucky Department of Physics & Astronomy, Lexington, Kentucky
29. 'X-rays from the first massive black holes', 2004 October 27, University of Michigan Astronomy Group, Ann Arbor, Michigan
30. 'Deep extragalactic surveys with Chandra and XMM-Newton: Keyhole views of the distant X-ray universe', 2004 October 27, University of Michigan Department of Physics, Ann Arbor, Michigan
31. 'Deep extragalactic surveys with Chandra and XMM-Newton: Keyhole views of the distant X-ray universe', 2005 January 17, University of British Columbia Department of Physics & Astronomy, Vancouver, Canada
32. 'Deep extragalactic surveys with Chandra and XMM-Newton: Keyhole views of the distant X-ray universe', 2005 January 18, The Herzberg Institute of Astrophysics, Victoria, Canada
33. 'Deep extragalactic surveys with Chandra and XMM-Newton: Keyhole views of the distant X-ray universe', 2005 February 1, The Institute for Advanced Study Astrophysics Group, Princeton, New Jersey
34. 'Deep extragalactic surveys with Chandra and XMM-Newton: Keyhole views of the distant X-ray universe', 2005 March 30, The California Institute of Technology Department of Astronomy, Pasadena, California
35. 'X-raying active galaxies in the high-redshift universe: Results from snapshot and deep surveys', 2005 September 6, University of Texas at Austin Astronomy Department Colloquium, Austin, Texas
36. 'X-raying active galaxies in the high-redshift universe: Results from snapshot and deep surveys', 2005 September 29, Yale University Astronomy Department Colloquium, New Haven, Connecticut
37. 'X-raying active galaxies in the high-redshift universe: Results from snapshot and deep surveys', 2005 December 6, NASA Jet Propulsion Laboratory Astrophysics Group Colloquium, Pasadena, California
38. 'First results from the Extended Chandra Deep Field-South survey', 2006 March 28, Columbia University Astronomy Department Lunchtime Colloquium, New York, New York
39. 'Adventuring through the distant X-ray universe: Recent results from the Chandra Deep Field surveys', 2006 November 9, Harvard-Smithsonian Center for Astrophysics Colloquium, Cambridge, Massachusetts
40. 'Adventuring through the distant X-ray universe: Recent results from the Chandra Deep Field surveys', 2007 November 1, University of Michigan Department of Astronomy, Ann Arbor, Michigan
41. 'From galaxies to the Universe: A rich and evolving tapestry of cosmic structure', 2007 November 2, University of Michigan Distinguished Public Lecture, Ann Arbor, Michigan

42. 'Adventuring through the distant X-ray universe: Recent results from the Chandra Deep Field surveys', 2008 January 17, Stanford University, The Kavli Institute for Particle Astrophysics and Cosmology, and The Stanford Linear Accelerator Center, Menlo Park, California
43. 'Adventuring through the distant X-ray universe: Recent results from the Chandra Deep Field surveys', 2008 August 29, Swift Mission Operations Center, University Park, Pennsylvania
44. 'Adventuring through the distant X-ray universe: Recent results from the Chandra Deep Field surveys', 2008 October 17, St. Mary's University Department of Astronomy & Physics Colloquium, Halifax, Canada
45. 'Recent results from the deepest cosmological X-ray surveys: Adventuring through the distant X-ray universe', 2008 November 3, Pennsylvania State University—Institute for Gravitation and the Cosmos, University Park, Pennsylvania
46. 'Recent results from the deepest Chandra surveys: Adventuring through the distant X-ray universe', 2008 November 20, Munich Joint Astronomy Colloquium (MPA, MPE, ESO, Univ. Obs.), Garching, Germany
47. 'Recent results from the deepest Chandra surveys: Adventuring through the distant X-ray universe', 2009 January 27, York University Department of Physics & Astronomy Colloquium, Toronto, Canada
48. 'Recent results from the deepest Chandra surveys: Adventuring through the distant X-ray universe', 2009 March 26, Carroll College Department of Physics & Mathematics Seminar, Helena, Montana
49. 'Black-hole ecology in the distant universe', 2010 January 7, University of Leicester Department of Physics & Astronomy, Leicester, United Kingdom
50. 'A decade of extragalactic surveys with Chandra and XMM-Newton: The demography, physics, and ecology of growing supermassive black holes', 2010 January 20, Pennsylvania State University Department of Astronomy & Astrophysics, University Park, Pennsylvania
51. 'Surveys of supermassive black holes with the Chandra X-ray Observatory', 2010 April 29, Union College Department of Physics & Astronomy, Schenectady, New York
52. 'Black-hole ecology in the distant universe', 2010 September 24, University of Pittsburgh Department of Physics & Astronomy, Pittsburgh, Pennsylvania
53. 'Surveys of supermassive black holes with the Chandra X-ray Observatory', 2011 March 29, Youngstown State University Department of Physics & Astronomy, Youngstown, Ohio
54. 'A decade of ultradeep Chandra surveys: Active galaxy demography, physics, and ecology in the distant universe', 2011 March 30, Ohio University Department of Physics & Astronomy, Athens, Ohio
55. 'A decade of ultradeep Chandra surveys: Active galaxy demography, physics, and ecology in the distant universe', 2011 March 31, Ohio State University Department of Astronomy, Columbus, Ohio

56. ‘A remarkable population of X-ray weak quasars: The PHL 1811 analogs’, 2011 April 18, Harvard-Smithsonian Center for Astrophysics active galaxies group, Cambridge, Massachusetts
57. ‘A decade of ultra-deep Chandra surveys: Active galaxy demography, physics, and ecology in the distant universe’, 2011 May 19, University of Washington Department of Astronomy, Seattle, Washington
58. ‘Active galaxies over cosmic time: The demography, physics, and ecology of growing supermassive black holes as revealed by X-ray surveys’, 2011 September 19, Pennsylvania State University—Institute for Gravitation and the Cosmos, University Park, Pennsylvania
59. ‘Active galaxy demography, physics, and ecology in the distant universe: A dozen years of progress with ultra-deep Chandra surveys’, 2011 September 27, Goddard Space Flight Center Astrophysics Science Division, Greenbelt, Maryland
60. ‘TBD’, 2012 April 13, Goddard Space Flight Center—Goddard Scientific Colloquia, Greenbelt, Maryland

E. Projects, Grants, Commissions, and Contracts

Please contact me directly if grant information is needed.

F. Citation Information

Please contact me directly if citation information is needed.

G. Professional Societies and Major Collaborations

- Chair of the Interest Group on Deep Drilling Fields for the Large Synoptic Survey Telescope, 2010–present
- Penn State Institute for Gravitation and the Cosmos, 2009–present
- Science Topical Team member for the Nuclear Spectroscopic Telescope Array, 2008–present
- Science Definition Team member for the International X-ray Observatory, 2008–2011
- Chair of the Science Panel on the High-Redshift Universe for the Constellation-X X-ray satellite, 2007–2008
- Chair of the Science Collaboration on Active Galaxies for the Large Synoptic Survey Telescope, 2006–present
- American Physical Society, 2005–present
- International Astronomical Union, 2003–present
- Swift Gamma-Ray Burst Explorer Associated Scientist, 1999–present

- Chandra Advanced CCD Imaging Spectrometer (ACIS) team, 1997–present
- Royal Astronomical Society, 1997–present
- American Astronomical Society, 1996–present
- Sigma Xi, 1991–present
- Tau Beta Pi, 1991–present
- Cum Laude Society, 1988–present

H. Awards for Scholarship and Professional Activity

- American Physical Society Fellowship, 2009
- ISI Highly Cited Researcher in Space Sciences, 2007
- Newton Lacy Pierce Prize of the American Astronomical Society, 2004
- NSF Faculty Early Career Development (CAREER) Award, 2000–2007
- Alfred P. Sloan Research Fellowship, 1999–2004
- NSF Graduate Research Fellowship, 1994–1996
- Cambridge University Isaac Newton Studentship, 1992–1993
- American Physical Society LeRoy Apker Award finalist, 1992
- Caltech George Green Prize for Creative Scholarship, 1992
- Barry Goldwater Merit Scholarship, 1990–1992
- Caltech Carnation Merit Awards, 1989–1990, 1990–1991, 1991–1992