

Joshua Edward Barnes – Curriculum Vitae

Date & place of birth: August 30, 1956; London, England.

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Address: Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822, USA.

Employment

<i>Graduate Chair</i>	01/05–Now
Institute for Astronomy, University of Hawaii at Manoa, HI	
<i>Astronomer</i>	08/03–Now
Institute for Astronomy, University of Hawaii at Manoa, HI	
<i>Associate Astronomer</i>	01/91–07/03
Institute for Astronomy, University of Hawaii at Manoa, HI	
Tenure granted: 7/95.	
<i>Senior Research Associate</i>	09/89–12/90
Canadian Institute for Theoretical Astrophysics, Toronto, Canada	
<i>Member</i>	09/84–07/89
Institute for Advanced Study, Princeton, NJ	
<i>Research Assistant</i>	09/82–06/84
Astronomy Department, University of California, Berkeley, CA	
Supervisors: Simon White, Marc Davis.	

Education

<i>Graduate Student</i>	09/82–06/84
Astronomy Department, University of California, Berkeley, CA	
Supervisors: Simon White, Marc Davis. Received Ph.D. in Astronomy.	
<i>Visiting Student</i>	08/81–08/82
Institute of Astronomy, Cambridge, England	
Sponsor: Craig Hogan.	
<i>Graduate Student</i>	09/79–07/81
Astronomy Department, University of California, Santa Cruz, CA	
Supervisor: William Burke.	
<i>Undergraduate Student</i>	09/74–05/79
Harvard University, Cambridge, MA	
(on leave 05/76–09/77)	
Supervisor: David Layzer. Received B.A. in Astronomy and Astrophysics.	

BOOKS

1. 'Galaxies: Interactions and Induced Star Formation', R. C. Kennicutt, F. Schweizer, & **J. E. Barnes**, 1998. (Springer-Verlag: Berlin).

CHAPTERS

2. 'Interactions and Mergers in Galaxy Formation', **J. E. Barnes**, 1995. *The Formation of Galaxies: Proceedings of the V Canary Islands Winter School of Astrophysics*, ed. C. Munoz-Tunon & F. Sanchez (Cambridge University Press: Cambridge), p. 399.
3. 'Dynamics of Interacting Galaxies', **J. E. Barnes** & L. Hernquist, 1992. *Annual Review of Astronomy and Astrophysics* **30**, 705.

EDITED VOLUMES

4. 'Galaxy Interactions at Low and High Redshift', **J. E. Barnes** & D. B. Sanders, eds. 1999. (Kluwer: Dordrecht).

IN PRESS

5. 'Identikit 1: A Modeling Tool for Interacting Disk Galaxies', **J. E. Barnes** & John E. Hibbard, 2009, *Astron. J.*

REFEREED JOURNAL ARTICLES

6. 'Off-Nuclear Star Formation and Obscured Activity in the Luminous Infrared Galaxy NGC 2623', A. S. Evans, T. Vavilkin, J. Pizagno, F. Modica, J. M. Mazzarella, K. Iwasawa, J. H. Howell, J. A. Surace, L. Armus, A. O. Petric, H. W. W. Spoon, **J. E. Barnes**, T. A. Suer, D. B. Sanders, B. Chan, & S Lord, 2008, *Astrophys. J. Lett.* **675**, 69.
7. 'S-COSMOS: The Spitzer Legacy Survey of the Hubble Space Telescope ACS 2 deg² COSMOS Field I: Survey Strategy and First Analysis', D. B. Sanders, M. Salvato, H. Aussel, O. Ilbert, N. Scoville, J. A. Surace, D. T. Frayer, K. Sheth, G. Helou, T. Brooke, B. Bhattacharya, L. Yan, J. Kartaltepe, **J. E. Barnes**, A. W. Blain, D. Calzetti, P. Capak, C. Carilli, C. M. Carollo, A. Comastri, E. Daddi, R. S. Ellis, M. Elvis, M. Fall, A. Franceschini, M. Giavalisco, G. Hasinger, C. Impey, A. Koekemoer, O. Le Fevre, S. Lilly, , M. C. Liu, H. J. McCracken, B. Mobasher, A. Renzini, M. Rich, E. Schinnerer, P. L. Shopbell, Y. Taniguchi, D. J. Thompson, C. M. Urry, J. P. Williams, 2007, *Astrophys. J. Supp.* **172**, 86.
8. 'COSMOS: Hubble Space Telescope Observations', N. Scoville, R. G. Abraham, H. Aussel, **J. E. Barnes**, A. Benson, A. W. Blain, D. Calzetti, A. Comastri, P. Capak, C. Carilli, J. E. Carlstrom, C. M. Carollo, J. Colbert, E. Daddi, R. S. Ellis, M. Elvis, S. P. Ewald, M. Fall, A. Franceschini, M. Giavalisco, W. Green, R. E. Griffiths, L. Guzzo, G. Hasinger, C. Impey, J.-P. Kneib, J. Koda, A. Koekemoer, O. Lefevre, S. Lilly, C. T. Liu, H. J. McCracken, R. Massey, Y. Mellier, S. Miyazaki, B. Mobasher, J. Mould, C. Norman, A. Refregier, A. Renzini, J. Rhodes, M. Rich, D. B. Sanders, D. Schiminovich, E. Schinnerer, M. Scodreggio, K. Sheth, P. L. Shopbell, Y. Taniguchi, N. D. Tyson, C. M. Urry, L. Van Waerbeke, P. Vettolani, S. D. M. White, & L Yan, 2007, *Astrophys. J. Supp.* **172**, 38.
9. 'Multiobject Spectroscopy of Young Star Clusters in NGC 4676', L.-H. Chien, **J. E. Barnes**, L. J. Kewley, & K. C. Chambers, 2007, *Astrophys. J. Lett.* **660**, 105.
10. 'Shock-induced star formation in a model of the Mice', **J. E. Barnes**, 2004. *Mon. Not. R. astr. Soc.* **350**, 798.

11. 'Hubble Space Telescope Observations of NGC 6240: A Case Study of an Ultraluminous Infrared Galaxy with Obscured Activity', J. Gerssen, R. P. van der Marel, D. Axon, J. C. Mihos, L. Hernquist, & **J. E. Barnes**, 2004, *Astron. J.* **127**, 75.
12. 'Formation of Gas Disks in Merging Galaxies', **J. E. Barnes**, 2002. *Mon. Not. R. astr. Soc.* **333** 481.
13. 'High-Resolution HI Mapping of NGC 4038/9 ("The Antennae") and its Tidal Dwarf Galaxy Candidates', J. E. Hibbard, J. M. van der Hulst, **J. E. Barnes**, & R. M. Rich, 2001. *Astron. J.* **122**, 2969.
14. 'Core Density Profile Survival in Dissipationless Mergers', E. Fulton & **J. E. Barnes**, 2001. *Astrophysics and Space Science* **276**, 851.
15. 'A Simple Algorithm for Orbit Classification', E. E. Fulton & **J. E. Barnes**, 2001. *Mon. Not. R. astr. Soc.* **321**, 507.
16. 'The Line of Sight Velocity Distributions of Simulated Merger Remnants', G. J. Bendo & **J. E. Barnes**, 2000. *Mon. Not. R. astr. Soc.* **316**, 315.
17. 'Transformations of Galaxies. II. Gas Dynamics in Merging Disk Galaxies: Addendum', **J. E. Barnes** & L. Hernquist, 1998. *Astrophys. J.* **495**, 187.
18. 'Transformations of Galaxies. II. Gas Dynamics in Merging Disk Galaxies', **J. E. Barnes** & L. Hernquist, 1996. *Astrophys. J.* **471**, 115.
19. 'Dynamical Instabilities in Hollow Halo Models', **J. E. Barnes**, 1993. *Astrophys. J. Lett.* **419**, L17.
20. 'Formation of Dwarf Galaxies in Tidal Tails', **J. E. Barnes** & L. Hernquist, 1992. *Nature* **360**, 715.
21. 'Transformations of Galaxies. I. Mergers of Equal-Mass Stellar Disks', **J. E. Barnes**, 1992. *Astrophys. J.* **393**, 484.
22. 'Origin of Kinematic Subsystems in Elliptical Galaxies', L. Hernquist & **J. E. Barnes**, 1991. *Nature* **354**, 210.
23. 'Fueling Starburst Galaxies With Gas-Rich Mergers', **J. E. Barnes** & L. Hernquist, 1991. *Astrophys. J. Lett.* **370**, L65.
24. 'Are Some N-body Algorithms Intrinsically Less Collisional than Others?', L. Hernquist & **J. E. Barnes**, 1990. *Astrophys. J.* **349**, 562.
25. 'A Modified Tree Code: Don't Laugh, It Runs', **J. E. Barnes**, 1990. *J. Comp. Phys.* **87**, 161.
26. 'Error Analysis of a Tree Code', **J. E. Barnes** & P. Hut, 1989. *Astrophys. J. Supp.* **70**, 389.
27. 'Evolution of Compact Groups and the Formation of Elliptical Galaxies', **J. E. Barnes**, 1989. *Nature* **338**, 123.
28. 'Encounters of Disk/Halo Galaxies', **J. E. Barnes**, 1988. *Astrophys. J.* **331**, 699.
29. 'Angular Momentum From Tidal Torques', **J. Barnes** & George Efstathiou, 1987. *Astrophys. J.* **319**, 575.
30. 'Programming a Highly Parallel Computer', D. Hillis & **J. Barnes**, 1987. *Nature* **326**, 27.
31. 'A Hierarchical O(N log N) Force Calculation Algorithm', **J. Barnes** & P. Hut, 1986. *Nature* **324**, 446.
32. 'Dynamical Instabilities in Spherical Stellar Systems', **J. Barnes**, J. Goodman, & P. Hut, 1986. *Astrophys. J.* **300**, 112.
33. 'The Dynamical State of Groups of Galaxies', **J. Barnes**, 1985. *Mon. Not. R. astr. Soc.* **215**, 517.
34. 'Cluster-Cluster Clustering', **J. Barnes**, A. Dekel, G. Efstathiou, & C. Frenk, 1985. *Astrophys. J.* **295**, 368.
35. 'The Response of a Spheroid to a Disk Field or Were Bulges Ever Ellipticals?', **J. Barnes** & Simon D. M. White, 1984. *Mon. Not. R. astr. Soc.* **211**, 753.

36. 'N-Body Studies of Compact Groups of Galaxies Dominated by Dark Matter', **J. Barnes**, 1984. *Mon. Not. R. astr. Soc.* **208**, 873.
37. 'Evolution Toward Equipartition in Galaxy Clusters and Its Effect On Virial M/L Estimates', **J. Barnes**, 1983. *Mon. Not. R. astr. Soc.* **203**, 223.

INVITED REVIEW ARTICLES

38. 'Dynamics of Stellar Collisions', **J. E. Barnes**, 2002. *Stellar Collisions, Mergers, and Their Consequences*, ed. M. Shara (Astronomical Society of the Pacific), p. 60.
39. 'Gas Dynamics in Galaxy Mergers', **J. E. Barnes**, 2001. *Gas & Galaxy Evolution*, eds. J. E. Hibbard, M.P. Rupen, & J.H. van Gorkom (Astronomical Society of the Pacific), p. 135.
40. 'Merger Time Scales', **J. E. Barnes**, 2001. *Astrophysical Ages and Time Scales*, eds. T. von Hippel, C. Simpson, & N. Manset (Astronomical Society of the Pacific), p. 382.
41. 'Dynamics of Galaxy Interactions', **J. E. Barnes**, 2001. *Highlights of Spanish Astrophysics II*, ed. J. Zamorano, J. Gorgas, & J. Gallego (Kluwer), p. 85.
42. 'Groups of Galaxies', **J. E. Barnes**, 2001. *Encyclopedia of Astronomy and Astrophysics*, eds. P. Murdin *et al.* (Institute of Physics Pub.: Bristol, Philadelphia; Nature Pub. Group: New York), vol. 2, pp. 1059-1065.
43. 'Galaxy Transformation by Merging', **J. E. Barnes**, 1999. *The Evolution of Galaxies on Cosmological Timescales*, eds. J. E. Beckman & T.J. Mahoney (Astronomical Society of the Pacific: San Francisco), p. 293.
44. 'Galaxy Interactions', **J. E. Barnes**, 1999. *Galaxy Dynamics*, eds. D. R. Merritt, J. A. Sellwood, & M. Valluri (Astronomical Society of the Pacific: San Francisco), p. 463.
45. 'Dynamics of Mergers & Remnants', **J. E. Barnes**, 1999. *Galaxy Interactions at Low and High Redshift*, eds. **J. E. Barnes** & D. B. Sanders (Kluwer: Dordrecht), p. 137.
46. 'Mergers and Galaxy Assembly', **J. E. Barnes**, 1999. *After the Dark Ages: When Galaxies Were Young*, eds. S. S. Holt & E. P. Smith (American Institute of Physics: Woodbury), p. 191.
47. 'Dynamical Evolution of Compact Groups', **J. E. Barnes**, 1997. *The Nature of Elliptical Galaxies*, eds. M. Arnaboldi, G. S. Da Costa, & P. Saha (Astronomical Society of the Pacific: San Francisco), p. 469.
48. 'Memory in Mergers Major and Minor', **J. E. Barnes**, 1996. *Formation of the Galactic Halo . . . Inside and Out*, eds. H. Morrison & A. Sarajedini (Astronomical Society of the Pacific: San Francisco), p. 415.
49. 'Dynamical Effects of Mergers', **J. E. Barnes**, 1996. *New Light on Galaxy Evolution*, eds. R. Bender & R. Davies (Kluwer: Dordrecht), p. 191.
50. 'Dynamics of Gas in Major Mergers', L. Hernquist & **J. Barnes**, 1994. *Mass-Transfer Induced Activity in Galaxies*, ed. I. Shlosman (Cambridge University Press: Cambridge), p. 323.
51. 'Computer Models of Colliding Galaxies', **J. E. Barnes** & L. E. Hernquist, 1993. *Physics Today* **46**, 3, 54.
52. 'Experimental Study of Mergers', **J. E. Barnes**, 1992. *Physics of Nearby Galaxies: Nature or Nurture?*, eds. T. Thuan, C. Balkowski, & J. Thanh (Editions Frontieres: Gif sur Yvette), p. 301.
53. 'Colliding Galaxies', **J. Barnes**, L. Hernquist, & F. Schweizer, 1991. *Scientific American* **265**, 2, 40.
54. 'Galaxies, Disk, Evolution', **J. E. Barnes**, 1992. *The Astronomy and Astrophysics Encyclopedia*, ed. S. Maran (Van Nostrand Reinhold: New York), p. 236.
55. 'Interactions: Strong', **J. E. Barnes**, 1992. *Morphological and Physical Classification of Galaxies*, eds. G. Longo, G. Busarello, & M. Capaccioli (Kluwer: Dordrecht), p. 277.

56. ‘Stellar and Gas Dynamics of Merging Galaxies’, **J. E. Barnes**, 1991. *Dynamics of Galaxies and Their Molecular Cloud Distributions*, eds. F. Combes & F. Casoli (Kluwer: Dordrecht), p. 363.
57. ‘N-body Studies of Major Mergers’, **J. Barnes**, 1990. *Dynamics and Interactions of Galaxies*, ed. R. Wielen (Springer: Heidelberg), p. 186.

CONFERENCE PROCEEDINGS & OTHER CONTRIBUTIONS

58. ‘Morphology of Luminous Infrared Galaxies’, J. Pizagno, T. Vavilkin, A. Evans, J. Mazarella, J. Howell, L. Armus, J. Surace, B. Chan, & **J. Barnes**, 2008. *Formation and Evolution of Galaxy Disks, ASP Conference Series, Vol. 396*, ed. J. G. Funes & E. M. Corsini (Astronomical Society of the Pacific), p. 247.
59. ‘Teaching by Moonlight’, **J. E. Barnes**, 2005. *Sky and Telescope*, **109**, 3, 12.
60. ‘The Dynamical Masses of Tidal Dwarf Galaxies’, J. E. Hibbard & **J. E. Barnes**, 2004. *Recycling Intergalactic and Interstellar Matter, IAU Symp. Series Vol. 217*, ed. P.-A. Duc, J. Braine, and E. Brinks (Astronomical Society of the Pacific), p. 510.
61. ‘ACS and Keck Observations of the Dwarf Galaxy that is Interacting with UGC 10214 (“The Tadpole”)’, H. C. Ford, H. D. Tran, M. Sirianni, G. D. Illingworth, D. Magee, **J. Barnes**, M. Clampin, G. Hartig, D. R. Ardila, F. Bartko, N. Benitez, J. P. Blakeslee, R. Bouwens, T. J. Broadhurst, R. A. Brown, C. Burrows, E. Cheng, N. Cross, P. D. Feldman, M. Franx, D. A. Golimowski, C. Gronwall, L. Infante, R. A. Kimble, J. Krist, M. Lesser, A. R. Martel, F. Menanteau, G. R. Meurer, G. Miley, M. Postman, P. Rosati, W. B. Sparks, Z. I. Tsvetanov, R. L. White, & W. Zheng, 2002. *Bul. AAS* **34**, 1147.
62. ‘HST observations of NGC 6240’, J. Gerssen, R. P. van der Marel, D. Axon, C. Mihos, L. Hernquist, & **J. E. Barnes**, 2001. *The Central kpc of Starbursts and AGN: The La Palma Connection, ASP Conf. Proc. Vol. 249*, ed. J. H. Knapen, J. E. Beckman, I. Shlosman, & T. J. Mahoney (Astronomical Society of the Pacific), p. 665.
63. ‘N-Body Simulations of Tidal Dwarf Galaxies’, M. Kohring, J. E. Hibbard, & **J. E. Barnes**, 2001. *Bul. AAS* **33**, 2, 835.
64. ‘An HST study of the double nucleus in the ULIRG NGC 6240’, J. Gerssen, R. P. van der Marel, **J. Barnes**, L. Hernquist, C. Mihos, 2001. *Bul. AAS* **33**, 2, 899.
65. ‘Fragmentation of Tails in Interacting Galaxies’, **J. E. Barnes** & L. Hernquist, 1993. *The Globular Cluster-Galaxy Connection*, eds. G. H. Smith & J. P. Brodie (Astronomical Society of the Pacific: San Francisco), p. 615.
66. ‘Making Ellipticals by Mergers’, **J. E. Barnes**, 1990. *Nature* **344**, 379.
67. ‘Cluster Ellipticals and the Overmerging Problem’, **J. E. Barnes**, 1989. *Bul. AAS* **21**, 4, 1170.
68. ‘The Relative Abundances of Loose and Compact Groups’, **J. E. Barnes**, 1988. *Bul. AAS* **20**, 4, 1085.
69. ‘Evolution of Compact Groups and Formation of Ellipticals’, **J. E. Barnes**, 1988. *The Epoch of Galaxy Formation*, ed. C. Frenk., R. Ellis, T. Shanks, A. Heavens, & J. Peacock (Kluwer: Dordrecht), p. 179.
70. ‘Encounters and Mergers of Disk/Halo Galaxies’, **J. Barnes**, 1988. *Bul. AAS* **20**, 2, 733.
71. ‘An Environment for Experiments in Stellar Dynamics’, **J. Barnes**, L. Hernquist, P. Hut, & P. Teuben, 1988. *Bul. AAS* **20**, 2, 706.
72. ‘Halo Response to Galaxy Formation’, **J. E. Barnes**, 1987. *Nearly Normal Galaxies*, ed. S. Faber (Springer-Verlag: New York), p. 154.
73. ‘An Efficient N-Body Algorithm for a Fine-Grain Parallel Computer’, **J. E. Barnes**, 1986. *The Use of Supercomputers in Stellar Dynamics*, ed. S. McMillan & P. Hut. (Springer-Verlag: Berlin). p. 175.

74. 'Dynamical Instabilities in Spherical Stellar Systems', **J. Barnes**, 1985. *Dynamics of Star Clusters*, ed. J. Goodman & P. Hut (Reidel: Dordrecht), p. 297.
75. 'Were Bulges Ever Ellipticals?', **J. Barnes** & S.D.M. White, 1983. *Bul. AAS* **15**, 4, 962.
76. 'The Origin of Rotation in Galaxies and Clusters', G. Efstathiou & **J. Barnes**, 1983. *Formation and Evolution of Galaxies and Large Structures in the Universe*, ed. J. Audouze & J. Tran Thanh Van (Reidel: Dordrecht), p. 361.

INVITED REVIEW LECTURES

1. 'Dynamics of Galaxies. I, II', at *Frontiers in Numerical Gravitational Astrophysics*, Erice, Sicily, 07/08.
2. 'Numerical Simulations of Mergers', at *Galaxy Mergers*, STScI, Baltimore, MD, 10/06.
3. 'Dynamical Triggers of Star Formation in Luminous Infrared Galaxies', at *Infrared Diagnostics of Galaxy Evolution*, IPAC, Pasadena, CA, 11/05.
4. 'Galactic Mergers', at *Astrophysics of Massive Black Hole Coalescence*, State College, PA, 11/02.
5. 'Merger Time Scales', at *Astrophysical Ages and Time Scales*, Hilo, HI, 02/01.
6. 'Dynamics of Galaxy Interactions', at *IV Reunion Cientifica de la Sociedad Espanola de Astronomica*, Santiago de Compostella, 09/00.
7. 'Dynamics of Stellar Collisions', at *Stellar Collisions and Mergers*, New York, 06/00.
8. 'Gas Dynamics in Galaxy Mergers', at *Gas & Galaxy Evolution*, Socorro, 05/00.
9. 'Mergers and Galaxy Transformation', at *Dynamics of Galaxies: From the Early Universe to the Present*, Paris, 07/99.
10. 'The Formation of Tidally Induced Dwarf Satellites', at *Satellite Galaxies*, Ringberg, 06/99.
11. 'Galaxy Transformation by Merging', at *The Evolution of Galaxies on Cosmological Timescales*, Tenerife, 12/98.
12. 'Mergers and Galaxy Assembly', at *After the Dark Ages: When Galaxies Were Young*, University of Maryland, 10/98.
13. 'Galaxy Interactions' at *Galaxy Dynamics*, Rutgers, 08/98.
14. 'Dynamics of Mergers & Remnants', at *Galaxy Interactions at Low and High Redshift*, Kyoto, 08/97.
15. 'Dynamics of Mergers & Remnants', at *Evolution of Galaxies*, Leiden, 07/97.
16. 'Dynamical Evolution of Compact Groups', at *The Nature of Elliptical Galaxies*, Canberra, 08/96.
17. 'Structure of Simulated Merger Remnants', at *Galaxy Interactions at Low and High Redshift*, Aspen, 06/96.
18. 'Dynamics of Galaxy Interactions. I-IX.', at *Galaxies: Interactions and Induced Star Formation*, Les Diablerets, 03/96.
19. 'Memory in Mergers Major and Minor', at *Formation of the Galactic Halo...Inside and Out*, Tucson, 10/95.
20. 'Dynamical Effects of Mergers', at *New Light on Galaxy Evolution*, Heidelberg, 06/95.
21. 'Dynamics of Galaxy Mergers', at *Galaxy Mergers*, London, 03/95.
22. 'Dynamics of Interacting Galaxies', at *Activity in the Central Parts of Galaxies*, IAU J.D. 5, XXIIInd General Assembly, The Hague, 08/94.

23. 'Formation of Dwarf Galaxies During Galaxy Interactions', at *N-Body Simulations of Stellar Clusters and Planetary Systems*, Lake Tahoe, 07/94.
24. 'Interactions and Mergers in Galaxy Formation. I-IV.', at *The Formation of Galaxies*, Tenerife, 12/93.
25. 'Experimental Study of Mergers', at *Physics of Nearby Galaxies: Nature or Nurture?*, Les Arcs, 03/92.
26. 'Strong Interactions', at *Morphological and Physical Classification of Galaxies*, Naples, 08/90.
27. 'Stellar and Gas Dynamics of Merging Galaxies', at *Dynamics of Galaxies and Molecular Cloud Distribution*, Paris, 06/90.
28. '*N*-body Studies of Major Mergers', at *Dynamics and Interactions of Galaxies*, Heidelberg, 06/89.

DEPARTMENTAL LECTURES

1. 'Photo-Dynamic Models of Isolated and Merging Galaxies', Kyoto University, 07/08
2. 'Identikit 1: A Modeling Tool for Interacting Disk Galaxies', Academia Sinica, Taipei, 06/08
3. 'Matching Models to Merging Galaxies: Lost and Found in Parameter Space', Yukawa Institute, Kyoto University, 01/08
4. 'Matching Models to Merging Galaxies: Lost and Found in Parameter Space', CALTECH, Pasadena, CA, 09/07
5. 'Matching Models to Merging Galaxies: Lost and Found in Parameter Space', Carnegie Institute, Pasadena, CA, 09/07
6. 'Numerical Simulations of Star Formation in Interacting Galaxies', IfA, 04/04.
7. 'Mergers of "Cuspy" Galaxies', Kyoto University, 06/02.
8. 'Tidal Dwarf (Pseudo) Galaxies', IfA, 01/01.
9. 'Dynamics of Colliding Galaxies', Ann Arbor, 10/00.
10. 'Dynamics of Colliding Galaxies', Madison, 10/00.
11. 'Tidal Dwarf (Pseudo) Galaxies', University of Tokyo, 08/99.
12. 'Merging and Galaxy Evolution', Academia Sinica, Taipei, 04/99.
13. 'Simulating Gas in Galaxies', Academia Sinica, Taipei, 04/99.
14. 'Memory in Mergers Major and Minor', Physics Dept., UH Manoa, 12/95.
15. 'Forming Dwarf Galaxies in Tidal Tails', University of Washington, 08/94.
16. 'Whither *N*?', University of Washington, 07/94.
17. 'Gas Dynamics in Merging Galaxies', IfA, 04/93.
18. 'Dynamics of Merging Disk Galaxies', Fermilab, 02/93.
19. 'Dynamics of Merging Disk Galaxies', Columbia University, 01/93.
20. 'Dynamics of Merging Disk Galaxies', CFHT HQ, 07/91.
21. 'Transformations of Galaxies', University of Hawaii, 03/91.
22. 'Orbital Structure of Merger Remnants', Lick Observatoy, 03/91.

PUBLIC LECTURES

1. 'When Galaxies Collide', IfA Open House, 04/07
2. 'Cosmic Collisions (Hitchhikers Guide to the End of Everything)', Ka'ahumanu Mall, Maui, 12/05
3. 'Cosmic Collisions (Hitchhikers Guide to the End of Everything)', UH Hilo, Hawaii, 12/05
4. 'Cosmic Collisions (Hitchhikers Guide to the End of Everything)', UH Manoa, Honolulu, 05/05
5. 'Galaxy Collisions', IfA Open House, 10/00