CURRICULUM VITAE

Name	— Krzysztof Galicki
Born	— August 10, 1958, Poland
Citizenship	— United States
Current address	— Department of Mathematics & Statistics The University of New Mexico Albuquerque, NM 87131, U.S.A. home tel. # (505) 271-9883 office tel. # (505) 277-2024 office fax. # (505) 277-5505 e-mail: galicki@math.unm.edu

• Education

August 1987	— **Doctor of Philosophy** in Mathematical Physics, SUNY@Stony Brook, Stony Brook, NY, U.S.A.
May 1987	— **Master of Arts,** SUNY@Stony Brook, Stony Brook, NY, U.S.A.
April 1982	— **Master's Degree** in Theoretical Physics, University of Wrocław, Wrocław, Poland

• Area of Research — Differential Geometry and Mathematical Physics

• Current Position

08/1999 - present	— **Professor** — Department of Mathematics & Statistics, — **University of New Mexico**, Albuquerque, NM, U.S.A.

- **Previous Positions**

08/1993 - 08/1999	— **Associate Professor**, Department of Mathematics & Statistics, **University of New Mexico**, Albuquerque, NM, U.S.A.
08/1990 - 08/1993	— **Assistant Professor**, Department of Mathematics & Statistics, **University of New Mexico**, Albuquerque, NM, U.S.A.
07/1987 - 07/1990	— G. C. Evans Instructor, **Rice University**, Department of Mathematics, Houston, TX, U.S.A.
09/1984 - 06/1987	— Research Assistant at the **Yang's Institute**, SUNY@Stony Brook, NY, U.S.A.
09/1982 - 08/1984	— Assistant faculty member at the Institute for Theoretical Physics, **University of Wrocław**, Wrocław, Poland

- **Concurrent Visiting Positions (one semster or longer)**

01.01-12.31 • 2004	— **Max-Planck-Institut für Mathematik** Bonn, Germany (planned future visit)
01.01-12.31 • 1997	— **Max-Planck-Institut für Mathematik** Bonn, Germany
01.01-05.30 • 1991	— School of Mathematics, **Institute for Advanced Study**, Princeton, NJ, U.S.A.

- **Other Visiting Positions (2 weeks to 2 months)**

2006, 2005, 2003, 2001, 1999, 1995, 1993, 1989	— **Max-Planck-Institut für Mathematik** Bonn, Germany
2005	— **Institut de Mathématiques Élie Cartan**, Université Henri Poincaré Nancy 1, Nancy, France
2005, 2003, 2001, 1998	— **Univeristà di Roma "La Sapienza"**, Rome, Italy
2005, 2002, 2000	— **Institut des Hautes Études Scientifiques**, Bures-sur-Yvette, France
2005, 2004, 2002, 1999, 1994	— **Erwin Schrödinger Institute for Mathematical Physics**, Vienna, Austria
2005, 2001, 1995	— **Humboldt Universität**, Berlin, Germany

1997, 1996	— **International Center for Mathematical Sciences**, Ediburgh, Scotland, United Kingdom.
1997	— **Vrije Universitet**, Amsterdam, Holland
1989	— **Odense University**, Odense, Denmark

- **NSF Research Grants**

2005 – 2008	— NSF Award in Geometric Analysis, *Einstein Metrics, Sasakian Geometry and Kähler Orbifolds*; (with C. P. Boyer)
2002 – 2005	— NSF Award in Geometric Analysis, *Contact Geometry, Fano Orbifolds, and Einstein Metrics*; (with C. P. Boyer)
1999 – 2002	— NSF Award in Geometric Analysis, *Contact Geometry and Einstein Metrics* (with C. P. Boyer)
1995 – 1998	— NSF Award in Geometric Analysis, *Quaternionic Quotients, Einstein Manifolds, and the Topology of Moduli Spaces*; (with C. P. Boyer and B. Mann)
1993 – 1995	— NSF Award in Geometric Analysis, *Quaternionic Quotients, Einstein Manifolds, and Mathematical Physics*
1991 – 1993	— NSF Award in Geometric Analysis, *Geometry of Quaternionic Manifolds and Mathematical Physics*
1989 – 1991	— NSF Award in Geometric Analysis, *Complex Geometry and Mathematical Physics*; (with Y. S. Poon)
1988 – 1989	— NSF Award in Geometric Analysis, *Geometry and Mathematical Physics*; (with Y. S. Poon and R. Wells)

- **Other Grants and Awards**

2005, 2003, 2001, 1998	— Istituto Nazionale di Alta Matematica (INdAM) grants to support my visits at "La Sapienza"
2003	— National Research Council COBASE Grant

2000	— UNM A&S Senior Professor Research Semester Award
1995 – 1996	— Efroymson Award
1994 – 1997	— UNM Regent's Lecturer Award

• Invited Addresses and Conferences

1. January 26, 2006 – *Geometric Structures on 5-Manifolds*, Ohio State University colloquium, **Columbus**, Ohio, USA.

2. December 16, 2005 – *Geometric Structures on 5-Manifolds*, Universität Köln geometry seminar, **Köln**, Germany.

3. November 22, 2005 – *Geometric Structures on 5-Manifolds*, Humboldt Universität geometry seminar, **Berlin**, Germany.

4. November 14, 2005 – *Geometric Structures on 5-Manifolds*, Jagiellonian University geometry seminar, **Kraków**, Poland.

5. November 1, 2005 – *Seifert Bundles and Contact Structures*, invited lecture at the Erwin Schrödinger Institute, **Vienna**, Austria.

6. October 10, 2005 – *Manifolds with Positive Ricci Curvature*, Arthur Besse seminar, École Polytechnique, **Palaiseau**, France.

7. September 23 – *Sasakian Structures in Mathematics and Physics*, invited lecture at the *Géométrie Pseudo-Riemannienne et Supersymétrie*, September 22-24, 2005; Institut de Recherche Mathématique Avancée de Strasbourg, **Strasbourg**, France.

8. September 1, 2004 – *Geometric Structures on* 5*-manifolds*, MPIM Oberseminar, MPIM, **Bonn**, Germany.

9. August 5 – *Geometric Structures on 5-Manifolds*, invited lecture at the SFB 478 workshop *Curvature and Global Shape, 31 July – 7 August, 2005*, **Münster**, Germany.

10. July 25, 2005 – *Geometric Structures on 5-Manifolds*, geometry seminar at the Università di Cagliari, **Cagliari**, Italy.

11. July 12, 2005 – *Geometric Structures on 5-Manifolds*, geometry seminar at the Università di Roma, "La Sapienza", **Rome**, Italy.

12. July 3, 2005 – *Geometric Structures on 5-manifolds*, colloquium talk at Università di Bari, **Bari**, Italy.

13. June 7, 14, 2005 – *Sasakian Geometry I-III*, invited series of **three** lectures at the Institut Élie Cartan, Université Henri Poincaré, **Nancy**, France.

14. June 13, 2005 – *Sasakian Geometry of 5-Manifolds*, Arthur Besse seminar, École Polytechnique, **Palaiseau**, France.

15. December 10, 2004 – *Einstein Metriken auf Exotischen Sphären* (in German), Universität Hamburg, **Hamburg**, Germany.

16. November 19, 2004 – *Einstein Metrics on Spheres*, lecture given at the geometry seminar at the University of Bochum, **Bochum**, Germany.

17. November 2, 2004 – *Einstein Metrics on Brieskorn Manifolds*, lecture given at the geometry seminar at the University of Hamburg, **Hamburg**, Germany.

18. October 21, 2004 – *Einstein Metrics on Spheres*, lecture given at the geometry seminar at the University of Bonn, **Bonn**, Germany.

19. October 17, 2004 – *Seifert Bundles, log del Pezzo Surfaces, and Einstein 5-Manifolds*, MPI Oberseminar Topologie, **Bonn**, Germany.

20. October 12,14,15, 2004 – *Sasakian Structures and Einstein Metrics I-III*, series of **three** lectures at Centro di Ricerca Matematica Ennio De Giorgi, *Differential Geometry and Topology, September 6 - November 12, 2004*, **Pisa**, Italy.

21. May 12, 2004 – *Transverse Fano Structures and Einstein Metrics on Spheres*, invited colloquium, University of Bucharest, **Bucharest**, Romania.

22. April 22, 2004 – *Transverse Fano Structures and Einstein Metrics on Spheres*, invited colloquium, University of Göttingen, **Göttingen**, Germany.

23. April 6, 2004 – *Transverse Fano Structures and Einstein Metrics on Spheres*, invited lecture at the Erwin Schrödinger Institute in the program *Geometric and analytic problems related to Cartan connections*, **Vienna**, Austria.

24. March 18, 2004 – *Transverse Fano Structures and Einstein Metrics on Spheres*, MPIM Oberseminar, MPIM, **Bonn**, Germany.

25. February 28, 2004 – *Einstein Metrics on Spheres*, invited lecture at the *Positive scalar curvature and related topics* conference at LMU München, **München**, Germany.

26. February 2, 2004 – *Transverse Fano Structures and Einstein Metrics on Spheres*, geometry seminar at the University of Oxford, **Oxford**, England.

27. January 18-24, 2004 – *Contact Structures, Complex Singularities, and Einstein Metrics I-III*, a series of **three** invited plenary lectures at the *XXIV Winter School in Geometry and Physics*, **Srni**, Chech Republic.

28. July 21, 2003 – *Transverse Fano Structures, Ricci Curvature, and Einstein Metrics*, geometry seminar at the Università di Cagliari, **Cagliari**, Italy.

29. July 4, 2003 – *Negative Self-Dual Einstein Metrics as Quotients*, lecture given at Università di Roma, "La Sapienza", **Roma**, Italy.

30. June 24, 2003 – *Transverse Fano Structures, Ricci Curvature, and Einstein Metrics*, geometry seminar at the Università di L'Aquila, **L'Aquila**, Italy.

31. May 2, 2003 – *Transverse Fano Structures, and Einstein Metrics*, geometry seminar at the University of California, **Riverside**, California, USA; May 2, 2003.

32. April 30, 2003 – *Transverse Fano Structures and Positive Ricci Curvature*, colloquium at the University of California, **Riverside**, California, USA; April 30, 2003.

33. April 8, 2003 – *Transverse Fano Structures, Ricci Curvature, and Einstein Metrics*, colloquium at the Oregon State University, **Corvalis**, Oregon, USA.

34. April 8, 2003 – *Transverse Fano Structures, Ricci Curvature, and Einstein Metrics*, geometry seminar at the University of Oregon, **Eugene**, Oregon, USA.

35. November 22, 2002 – *Transverse Fano Structures, Positive Ricci Curvature, and Einstein Metrics*, invited lecture at the Erwin Schrödinger Institute, **Vienna**, Austria.

36. June 15, 2002 – *On the Geometry of Sasakian-Einstein 5-Manifolds*, invited lecture at the Joint International AMS/UMI Meeting in Pisa, June 12-16, **Pisa**, Italy.

37. June 6, 2002 – *Sasakian Manifolds and Einstein Metrics in Dimension 5*, invited lecture at the EDGE meeting on *Special and Low-dimensional Geometries*, June 3-7, **Luminy**, France.

38. May 28, 2002 – *Contact Structures, Einstein Metrics and Positive Ricci Curvature*, invited lecture at Institut Élie Cartan, Université Henri Poincaré, **Nancy**, France.

39. May 27, 2002 – *Sasakian Manifolds and Einstein Metrics*, Arthur Besse seminar, École Polytechnique, **Palaiseau**, France.

40. December 6, 2001 – *Metric Cones, Holonomy, and Special Metrics*, the SFB 288 *Differentialgeometrie und Quantenphysik Kolloquium*, Freie Universität Berlin, **Berlin**, Germany.

41. November 24, 2001 – *Contact Structures and Algebraic Geometry*, invited lecture at the conference *Recent trends in mathematics*, November 23-25, 2001, **Schloss Klink**, Germany.

42. November 19, 2001 – *On Sasakian-Einstein 5-Manifolds*, Humboldt Universität geometry seminar, **Berlin**, Germany.

43. September 26, 2001 – *New Einstein Metrics in Dimensions Five and Seven*, lecture given at the Università di Roma, “La Sapienza”, **Rome**, Italy.

44. August 4, 2001 – *3-Sasakian Geometry, Nilpotent Orbits, and Exceptional Quotients*, LMS Durham Symposium, *Special Structures in Differential Geometry*, University of Durham, July 30 – August 9, 2001, **Durham**, England.

45. June 11, 2001 – *Algebraic Geometry and Einstein manifolds in Dimension Five*, invited lecture at Mathematisches Forschunginstitut Oberwolfach, *Differentialgeometrie im Grossen*, June 11 – 15, **Oberwolfach**, Germany.

46. May 22, 2001 – *Algebraic Geometry and Compact Einstein 5-Manifolds*, lecture given at the geometry seminar at the University of Bonn, **Bonn**, Germany.

47. March 21, 2001 – *Sasakian-Einstein Geometry of 5-Manifolds*, lecture given at the Università di Roma, “La Sapienza”, **Rome**, Italy.

48. May 19, 2000 – *New Einstein Metrics on 5-Manifolds*, Arthur Besse seminar, Ecole Polytechnique, **Palaiseau**, France.

49. August 29, 1999 – *Killing Spinors, Einstein Manifolds, and Contact Geometry*, invited lecture at the conference on *Generalized Dirac Operators and Their Geometric Scattering Theory*, Warsaw, 23 August - 4 September, 1999; International Stefan Banach Center of the Polish Academy of Sciences, **Warsaw**, Poland.

50. July 13, 1999 – *Sasakian-Einstein Manifolds, Killing Spinors, and Near Horizon Geometries*, Humboldt Universität geometry seminar, **Berlin**, Germany.

51. June 17, 1999 – *Contact Structures, Einstein Manifolds, and Near Horizon Geometries*, Universität München geometry seminar, **München**, Germany.

52. February 22, 1999 – *Cones, Holonomy, and Einstein Manifolds*, colloquium talk at West Washington University, **Bellingham**, Washington, USA.

53. June 18, 1998 – *New Families of Einstein 7-manifolds*, colloquium talk at Università di Bari, **Bari**, Italy.

54. June 2,4,9,2, 1998 – *A Short Introduction to 3-Sasakian Manifolds I-IV*, **four** lectures given at the Università di Roma, "La Sapienza", **Rome**, Italy.

55. December 4, 1997 – *Quaternionic Geometry and Einstein Manifolds*, colloquium given in the University of Leipzig, **Leipzig**, Germany.

56. November 9, 1997 – *Hypercomplex Structures on Toral Quotients*, talk given in the Special Session of the AMS Meeting, **Albuquerque**, New Mexico, USA.

57. October 9, 1997 – *Einstein Manifolds From Spheres*, report on my research presented to the Fachbeirat at the Max-Planck-Institut für Mathematik in **Bonn**, Bonn, Germany.

58. August 18, 1997 – *Quaternionic Geometry and Einstein Manifolds*, lecture at the ICMS conference *Complex Methods in Differential Geometry* 18-29 August, 1997, **Edinburgh**, Scotland.

59. July 15, 1997 – *Quaternionic Geometry and Einstein Manifolds*, lecture given in the MPI Faltings-Harder-Manin-Zagier Oberseminar, MPI, **Bonn**, Germany.

60. June 9, 1997 – *Making Einstein Manifolds Out of Spheres*, geometry seminar at the Jagiellonian University, **Kraków**, Poland.

61. April 7, 1997 – *On Betti Numbers of 3-Sasakian Manifolds*, Topologie Oberseminar MPI, **Bonn**, Germany.

62. February 21, 1997 – *Compact Einstein 7-manifolds of Positive Scalar Curvature and Arbitrary Second Betti Number*, and *3-Sasakian Geometry and Killing Spinors*, **two** lectures at the *Meeting on Dirac Operators and Geometry*, Warsaw, 16 February – 1 March, 1997, International Stefan Banach Center of the Polish Academy of Sciences, **Warsaw**, Poland.

63. February 4, 1997 – *Compact Einstein 7-manifolds of Positive Scalar Curvature and Arbitrary Second Betti Number*, geometry seminar at the University of Bonn, **Bonn**, Germany.

64. November 13, 1996 – *Making Einstein Manifolds Out of Spheres*, colloquium at the University of California at Riverside, **Riverside**, California, USA.

65. June 4,6,27, 1996 – *Geometry and Topology of 3-Sasakian Manifolds I-III*, **three** lectures at the ICMS Workshop *Interplays Between Geometry and Topology*, June 3-29, 1996, **Edinburgh**, Scotland.

66. April 14, 1996 – *Hypercomplex manifolds and 3-Sasakian geometry*, contributed paper in a Special Session at the AMS meeting, April 13-14, 1996, **New York**, New York, USA.

67. December 1, 1995 – *On Betti Numbers of 3-Sasakian Manifolds*, contributed paper in a Special Session at the second joint meeting of AMS and SMM, November 29 – December 2, 1995, **Guanajuato**, Mexico.

68. November 21, 1995 – *Geometry and Topology of 3-Sasakian Manifolds: On Betti Numbers of 3-Sasakian Spaces*, Humboldt Universität geometry seminar, **Berlin**, Germany.

69. November 16, 1995 – *Quaternionic Geometry, Supergravity, and Einstein Manifolds*, colloquium at Augsburg University, **Augsburg**, Germany.

70. November 14, 1995 – *Geometry and Topology of 3-Sasakian Manifolds: Quotient Construction*, Humboldt Universität geometry seminar, **Berlin**, Germany.

71. November 9, 1995 – *Quaternionic Geometry, 3-Sasakian Manifolds, and Supergravity*, the SFB 288 *Differentialgeometrie und Quantenphysik* Kolloquium, Freie Universität Berlin, **Berlin**, Germany.

72. June 12, 1995 – *3-Sasakian Manifolds*, invited lecture at Mathematisches Forschunginstitut Oberwolfach, *Differentialgeometrie im Grossen*, June 12 – 16, **Oberwolfach**, Germany.

73. June 9, 1995 – *Geometry and Topology of 3-Sasakian Manifolds*, geometry seminar at the Max-Planck-Institut, **Bonn**, Germany.

74. May 22, 1995 – *Geometry and Topology of 3-Sasakian Manifolds*, invited lecture in Arthur Besse Seminar at École Polytechnique, **Paris**, France.

75. January 10, 1995 – *3-Sasakian Manifolds*, lecture presented at the conference on *Representation Theory and Differential Geometry*, University of Adelaide, **Adelaide**, Australia.

76. September 28, 1994 – *Einstein Metrics and 3-Sasakian Geometry*, lecture presented at Erwin Schrödinger Institute, **Vienna**, Austria.

77. September 9, 1994 – *On 3-Sasakian Manifolds*, lecture presented at the Meeting on *Quaternionic Structures in Mathematical Physics*, September 5 – 9, 1994; SISSA, **Trieste**, Italy.

78. November 17, 1993 – *On Strongly Inhomogeneous Einstein Manifolds with Positive Scalar Curvature and 3-Sasakian Structure*, talk presented at Columbia University, **New York**, New York, USA.

79. November 16, 1993 – *On Strongly Inhomogeneous Einstein Manifolds with Positive Scalar Curvature and 3-Sasakian Structure*, talk presented at SUNY at Stony, Brook, **Stony Brook**, New York, USA.

80. November 15, 1993 – *On Strongly Inhomogeneous Einstein Manifolds with Positive Scalar curvature and 3-Sasakian structure*, talk presented at the Institute for Advanced Study, **Princeton**, New Jersey, USA.

81. July 1, 1993 – *A Construction of Strongly Inhomogeneous Einstein Manifolds with 3-Sasakian Structure*, talk presented at the Max-Planck Institut Harder-Hirzebruch-Zagier Oberseminar, Max-Planck Institut für Mathematik, **Bonn**, Germany.

82. June 4, 1993 – *Einstein Manifolds in Field Theories with Supersymmetry*, talk given at the University of Wrocław, **Wrocław**, Poland.

83. May 26, 1992 – *O Pewnych Siedmiowymiarowych Rozmaitościach Einsteina*, Wrocław University, **Wrocław**, Poland.

84. February 29, 1992 – *Quaternionic Reduction and Einstein Manifolds*, The New Mexico Geometry and Topology Symposium, **Las Cruces**, New Mexico, USA.

85. February 12, 1991 – *Group Actions, Quotients, and Quaternionic Manifolds*, invited talk at SUNY@Stony Brook, **Stony Brook**, New York, USA.

86. January 27, 1991 – *Group Actions, Quotients, and Quaternionic Manifolds*, talk given at The Institute for Advanced Study, **Princeton**, New Jersey, USA.

87. May 14, 1990 – *Self-dual Einstein Metrics with Nonzero Scalar Curvature*, talk given at The University of **Warwick**, England.

88. August 25, 1989 – *Quotient Constructions of Special Riemannian Geometries*, colloquium at Odense University, **Odense**, Denmark.

89. August 23, 1989 – *Quotient Constructions of Special Riemannian Geometries*, seminar talk at the Danmarks Tekniske Høskole, **Copenhagen**, Denmark.

90. June 16, 1989 – *Generalized Symplectic Reduction*, seminar talk at the Max-Planck-Institut, **Bonn**, Germany.

91. February 21, 1989 – *Generalized Symplectic Reduction*, invited colloquium at University of California, **Santa Barbara**, California, USA.

92. December 8, 1988 – *New Metrics with $Sp(n) \cdot Sp(1)$ Holonomy*, invited colloquium at Tulane University, **New Orleans**, Louisiana, USA.

PUBLICATIONS

- **Articles published or accepted for publication**

1. *On η-Einstein Sasakian Geometry*, **Communications in Mathematical Physics 262** (2006), 177-208; (with C. P. Boyer and P. Matzeu).
2. *Sasakian geometry Einstein metrics on spheres*, *Short Program on Riemannian Geometry*, 47-61, **CRM Proceedings & Lecture Notes, 40**, AMS, Providence, RI, 2005; (with C. P. Boyer).
3. *Einstein metrics on spheres*, **Annals of Mathematics 162** (2005), 557-580; (with C. P. Boyer and J. Kollár).
4. *Einstein metrics on exotic spheres in dimension 7,11, and 15*, **Experimental Mathematics 14** (2005), 61-66; (with C. P. Boyer, J. Kollár, and E. Thomas).
5. *Sasakian Geometry, Hypersurface Singularities, and Einstein Metrics*, **Rendiconti del Circolo Matematico di Palermo (2), Suppl. No. 75** (2005), 57-87; (with C. P. Boyer).
6. *Toric self-dual Einstein metrics as quotients*, **Communications in Mathematical Physics 253** (2005), 337-370; (with C. P. Boyer, D. M. J. Calderbank, and P. Piccinni).
7. *On Positive Sasakian Geometry*, **Geometriae Dedicata 101** (2003), 93-102; (with C. P. Boyer and M. Nakamaye).
8. *New Einstein Metrics on* $8\#(S^2 \times S^3)$, **Differential Geometry and Its Applications 19** (2003); 245-251; (with C. P. Boyer).
9. *The Geometry of Sasakian-Einstein 5-Manifolds*, **Mathematische Annalen 325** (2003), 485-524; (with C. P. Boyer and M. Nakamaye).
10. *Sasakian Geometry, Homotopy Spheres, and Positive Ricci Curvature*, **Topology 42** (2003), 981-1002; (with C. P. Boyer and M. Nakamaye).
11. *Einstein Metrics on Rational Homology 7-Spheres*, **Annales de l'Institut Fourier 52** (2002), 1569-1584; (with C. P. Boyer and M. Nakamaye).
12. *Rational Homology 5-Spheres with Positive Ricci Curvature*, **Mathematical Research Letters** 9 (2002), 521-528; (with C. P. Boyer).
13. *Sasakian-Einstein Structures on* $\#9(S^2 \times S^3)$, **Transactions of the American Mathematical Society 354** (2002), 2983-2996; (with C. P. Boyer and M. Nakamaye).
14. *3-Sasakian Geometry, Nilpotent Orbits, and Exceptional Quotients*, **Annals of Global Analysis and Geometry** 21 (2002), 85-110; (with C. P. Boyer and P. Piccinni).

15. *New Einstein Metrics in Dimension Five*, **Journal of Differential Geometry 57** (2001); 443-463; (with C. P. Boyer).

16. *Contact Geometry and Einstein Manifolds*, **Proceedings of the American Mathematical Society 129** (2001), 2419-2430; (with C. P. Boyer).

17. *On Sasakian-Einstein Geometry*, **International Journal of Mathematics 11** (2000), 873-909; (with C. P. Boyer).

18. *A Note on Contact Toric Geometry*, **Journal of Geometry and Physics 35** (2000), 288-298; (with C. P. Boyer).

19. *3-Sasakian Manifolds*, Encyclopaedia of Mathematics, Supplement II, pp. 449-451, Kluwer Academic Publishers, (2000).

20. *3-Sasakian Manifolds*; Surveys in Differential Geometry VI: *Essays on Einstein Manifolds* A supplement to the Journal of Differential Geometry, pp. 123-184, (eds. C. LeBrun, M. Wang); International Press, Cambridge (1999); (with C. P. Boyer).

21. *Quaternionic geometry and* 3*-Sasakian manifolds*, Quaternionic structures in mathematics and physics (Trieste, 1994), 7–24 (electronic), Int. Sch. Adv. Stud. (SISSA), Trieste, (1998); (with C. P. Boyer and B. Mann).

22. *Hypercomplex Structures From 3-Sasakian Structures*, **Journal für die reine und angewandte Mathematik 501** (1998), 115-141; (with C. P. Boyer and B. Mann).

23. *A Note on Smooth Toral Reductions of Spheres*, **Manuscripta Mathematica 95** (1998), 149-158. (with C. P. Boyer and B. Mann).

24. *Compact 3-Sasakian 7-Manifolds with Arbitrary Second Betti Number*, **Inventiones Mathematicae 131** (1998), 321-344; (with C. P. Boyer, B. Mann, and E. Rees).

25. *The Twistor Space of a 3-Sasakian Manifolds*, **International Journal of Mathematics 8** (1997), 31-60; (with C. P. Boyer).

26. *Einstein Manifolds of Positive Scalar Curvature with Arbitrary Second Betti Number*, **Balkan Journal of Geometry and Its Applications 1**, no. 2 (1996), 1-8. (with C. P. Boyer, B. Mann, and E. Rees).

27. *On Betti Numbers of* 3*-Sasakian Manifolds*, **Geometriae Dedicata 63** (1996), 45-68; (with S. Salamon).

28. *On Strongly Inhomogeneous Einstein Manifolds*, **Bulletin of the London Mathematical Society 28** (1996), 401-408; (with C. P. Boyer and B. Mann).

29. *Hypercomplex Structures on Stiefel Manifolds*, **Annals of Global Analysis and Geometry 14** (1996), 81-105; (with C. P. Boyer and B. Mann).

30. *Some New Examples of Inhomogeneous Hypercomplex Manifolds*, **Mathematical Research Letters 1** (1994), 531-538; (with C. P. Boyer and B. Mann).

31. *Geometry and topology of 3-Sasakian manifolds*, **Journal für die reine und angewandte Mathematik 455** (1994), 183-220; (with C. P. Boyer and B. Mann).

32. *New Examples of Inhomogeneous Einstein Manifolds of Positive Scalar Curvature*, **Mathematical Research Letters 1** (1994), 115-121; (with C. P. Boyer and B. Mann).

33. *3-Sasakian Manifolds*, **Proceedings of Japan Academy** vol. **69**, Ser. A, (1993), 335-340; (with C. P. Boyer and B. Mann).

34. *Quaternionic Quotients and Einstein Manifolds*, in **Communications in Analysis and Geometry** vol. **1**, no. 2, (1993), 1-51; (with C. P. Boyer and B. Mann).

35. *Nonzero Scalar Curvature Generalizations of the ALE Instantons*, **Journal of Mathematical Physics 33** (1992), 1765-1771; (with T. Nitta).

36. *Geometry of the Scalar Couplings in $N = 2$ Supergravity Models*, **Classical and Quantum Gravity 9** (1992), 27-40.

37. *Multicenter Metrics with Negative Cosmological Constant*, **Classical and Quantum Gravity 8** (1991), 1529-1543.

38. *Duality and Yang-Mills Fields on quaternionic Kähler manifolds*, **Journal of Mathematical Physics 32** (1991), 1263-1268; (with Y. S. Poon).

39. *Quaternionic Reduction and Quaternionic Orbifolds*, **Mathematische Annalen 282** (1988), 1-21; (with B.H. Lawson, Jr.)

40. *A Generalization of Momentum Mapping Construction for Quaternionic Kähler Manifolds,* **Communications in Mathematical Physics 108** (1987), 117-138.

41. *New Matter Couplings in N=2 Supergravity,* **Nuclear Physics B289** (1987), 573-588.

42. *Hyperkähler and Quaternionic Kähler Nonlinear Sigma Models*, **Nuclear Physics B271** (1986), 402-416.

43. *$CP(n)$ nonlinear sigma models with holomorphic constraints in d=2,4 dimensions,* **Physical Reviews D29** (1984), 1809-1818.

- **Articles submitted for publication**

1. *Einstein metric on rational homology spheres*, submitted to the Journal of Differential Geometry; (with C. P. Boyer).

2. *Highly connected manifolds with positive Ricci curvature*, submitted to Geometry and Topology; (with C. P. Boyer).

- **To be submitted and in preparation**

1. *Constructions in Sasakian Geometry*, in preparation; (with C. P. Boyer and L. Ornea).

2. *Sasakian Manifolds*, research monograph for the Oxford University Press; in preparation (with C. P. Boyer).

3. *On Sasakian Futaki Invariants*, in preparation; (with C. P. Boyer and S. Simanca).
4. *Sasakian Geometry in Five Dimensions*, in preparation; (with C. P. Boyer).

Last updated: February 1, 2006