

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

Department of Mathematics
University of California
Irvine, CA 92697-3875

Email: rstern@uci.edu
Phone: (949) 854-8544
Fax: (949) 824-7993

Academic Degrees

B.A. 1968 Knox College, Galesburg, Illinois
M.A. 1970 University of California, Los Angeles, California
Ph.D. 1973 University of California, Los Angeles, California

Research Area

Mathematics: Geometric and low dimensional topology

Professional Experience

1973-74 Member of Institute for Advanced Study, Princeton New Jersey
1974-76 Instructor, University of Utah
1976-79 Assistant Professor, University of Utah
1977-78 NSF Post-Doctoral Exchange Scientist in U.S.-France program
1977-78 Member of Institut des Hautes Etudes Scientifique
Bures-Sur-Yvette, France
1979 Visiting Associate Professor, University of Hawaii
1979-84 Associate Professor, University of Utah
1984-91 Full Professor, University of Utah
1986 Visiting Full Professor, UCLA
1986 Foreign Expert, Nankai Institute of Mathematics, Tianjin, China
1989-2010 Full Professor, University of California, Irvine
1989-93 Chair, Department of Mathematics, UCI
1998-2006 Dean, School of Physical Sciences, UCI
2010- Professor Emeritus

Awards and Honors

MAA Invited Hour Lecture, Summer Meeting, 1984
AMS Invited Hour Lecture, Summer Meeting, 1985
Invited Hour Lecture, Joint AMS-Sociedad Matematica Mexicana Meeting, December 1997
University of Utah Distinguished Teaching Award, 1987
UCI School of Physical Sciences Undergraduate Teaching Award, 1995
Invited Speaker, International Congress of Mathematicians, 1998
Distinguished Alumnus, Knox College, 2002
Elected Fellow, American Mathematical Society 2013

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

Ph.D. Students

Jim Hoste	1982	NSF Fellow, Professor, Pitzer College, Claremont, CA.
Tran Thuong	1986	Associate Prof, Missouri Southern State University
Kurt Burnette	1986	Pastor of Our Lady of Perpetual Help Church in Albuquerque, NM 2000 Canon Law degree:Pontifical Oriental Institute in Rome
Gordana Matic	1986	Moore Instructor at MIT, Professor, University of Georgia
David Austin	1989	NSF Fellow, Professor, UBC, Professor Grand Valley University, Allendale, MI
Kenneth Ferguson	1991	Partner and Head of global macro research at First Quadrant
Terry Fuller	1998	Member of Institute for Advanced Study, Associate Professor CSUN
Burak Ozbagci	1999	Professor, Koc University, Istanbul Turkey
Ki-Heon Yun	2000	Assistant Professor, Sungshin Women's University, Seoul Korea
Jusef Gurtas	2003	Assistant Professor Queensborough College, CUNY
Anar Akhmedov	2006	Ritt Instructor, Columbia, Associate Professor, University of Minnesota
Ahmet Beyaz	2006	Assistant Professor, Middle Eastern Technology University, Ankara, Turkey
Daniel Nash	2010	Assistant Professor University of San Diego

Major Invited Lectures and Colloquiums since 1994

April 1994	Stanford Topology Conference (Principal Speaker)
April 1994	University of Utah Colloquium
May 1994	Topology/Geometry Conference, Gokova, Turkey (Principal Speaker)
July 1994	Institute for Advanced Study Geometry Lectures (5 lectures)
Nov. 1994	Workshop on Donaldson Theory for complex surfaces, University of Oklahoma (Principal Speaker)
Dec. 1994	Spitafeld's Day Speaker, London Math. Society, Cambridge University
Dec. 1994	Newton Institute Symplectic Geometry Workshop, Principal Speaker
Jan. 1995	Seiberg-Witten International Conference (Principal Speaker), Princeton University
Jan. 1995	Sponsoring Institutions Fest (Principal Speaker) Math. Sci. Research Institute, Berkeley, Ca.
Mar. 1995	International Centre for Theoretical Speaker Conference on Topological and Geometrical Problems related to Quantum Field Theory (Principal Speaker), Trieste, Italy
May 1995	Academia de Lincei Conference on Geometry, Principal Speaker, Rome, Italy
May 1995	Topology/Geometry Conference, Gokova, Turkey (Principal Speaker)
June 1995	Europroj Conference, Principal Speaker, Oslo, Norway
Nov. 1995	AMS Special Session in Harmonic Maps, USC
July 1996	Symplectic Topology and Geometry Conference, Ascona, Switzerland
Oct 1996	UCLA Colloquium Speaker

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

- Oct 1996 MSRI Topology Seminar Speaker
- Nov 1996 Pacific Northwest Geometry Conference (Principal Speaker), Univ of Oregon
- Sept 1997 Symplectic Geometry Workshop, Mathematical Research Centre, University of Warwick, Principal Speaker (3 lectures)
- Oct. 1997 Clifford Lectures Speaker, Tulane University
- Nov. 1997 University of Wisconsin, Colloquium Speaker
- Dec 1997 AMS Invited Hour Speaker, Joint AMS-Sociedad Matematica Mexicana Meeting
- April 1998 Southern California Topology Conference (Cal Tech) Plenary Speaker
- June 1998 Kirby Fest Plenary Speaker (MSRI)
- Aug. 1998 International Congress of Mathematicians, Invited 45 min. lecture
- June 1999 Fesy Gersey Math Institute, Istanbul, Turkey
- June 1999 Cortona Symplectic Geometry Conference, Cortona, Italy
- Sept 1999 Symplectic Geometry Workshop, Mathematical Research Centre, University of Warwick, Principal Speaker (3 lectures)
- Oct 1999 Texas Geometry Conference, Texas A&M, principal speaker
- Nov 1999 UCSB Center for Theoretical Physics Symplectic Geometry Conference, principal speaker
- June 2001 Cortona Symplectic Geometry Conference, Cortona, Italy
- July 2001 Oberwolfach Math Institute, Germany
- Dec 2001 Holomorphic Disks Symposia, Institute for Advanced Study
- Dec 2002 Low-dimensional topology international conference, Merida, MX
- May 2003 Casson Conference, U Texas Principal Speaker
- July 2003 Heidelberg University Colloquium Speaker
- July 2003 Ehren Promotion von Professor Kreck, Festvortrag Lecturer at U of Düsseldorf
- June 2004 Clay Institute Summer School, Renyi University, Budapest lecture series
- Sept 2004 Deutsche Mathematische Verein Annual Meeting plenary speaker, Heidelberg
- Sept 2004 Heidelberg University lecture series (3) on 4-dimensional manifolds
- Feb 2005 4-dimensional Worlds, UC Irvine
- Feb 2006 Hiroshima Topology Conference plenary speaker, Hiroshima Japan
- May 2006 Columbia University Topology Conference, invited speaker
- July 2006 Park City Mathematics Institute Summer School in Mathematics, Graduate Student Lectures
- Nov 2006 Tulane University Math Conference in honor of Fintushel, invited speaker
- Nov 2006 Cambridge University Geometry Seminar, invited speaker
- Jan 2007 Geometry and Topology of Singularities, Cuernavaca, MX, 5 lectures
- March 2007 Holomorphic Curves Conference, Banff Research Institute, invited speaker
- April 2007 Topology and Geometry of 4-manifolds, invite speaker-3 lectures, KIST, Seoul, Korea
- May 2007 Euler Fest, plenary speaker, Basel Mathematics Institute, Basel, Switzerland
- April 2008 Colloquium, Pitzer College
- May 2008 Colloquium, Harvard University
- Aug. 2008 MSRI Workshop on Low Dimensional Topology, Plenary Speaker

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

Sept. 2008 Oberwolfach Topology Workshop
April 2009 Cascade Topology Seminar, Invited Speaker, UBC
April 2009 Colloquium, UBC
May 2009 Geometry and Topology of Manifolds, Principal Speaker, Univ of Muenster,
Germany
Oct 2010 Yamabe Lectures, U Minnesota
May 2012 50th Anniversary of Cornell Topology Festival Invited Speaker

Recent Post Doctoral Students

Christopher Herald, currently Professor, University of Nevada Las Vegas
Stefano Vidussi, currently Professor UC Riverside
Jim Bryan, currently Professor, University of British Columbia
Andras Stipsicz, currently, Professor Renyi Institute for Mathematics, Budapest
Jongil Park, currently Professor, Seoul National University
Boazhen Yu, deceased

Professional Committees and Memberships since 1993

NSF - New Young Investigators Mathematics Selection Panel, 1993
NSF -Group Infrastructure Grant Review Panel, 1997
NSF - Mathematical Research Institutes Panel, 1998
NSF- Intellectual Opportunities in the Mathematical Sciences Panel, 2000

Regional Initiative in Science Education Committee (National Research Council), 1994-95
Defense Reinvestment Initiative Advisory Board (National Research Council), 1995-1999

University External Review Committees

University of Oklahoma Dept. of Math, 1995
Chair, University of Texas, Austin, Dept. of Math, 1996
International Team to review several mathematics departments in Turkey, 1999
Chair, Duke University, Dept. of Math, 2000
Chair, UCSC, Dept. of Math, 2000
UBC University, Dept. of Math, 2000
UCSC, Dept. of Math, 2002-3
Cornell University, 2004
Tulane University, 2005
Chair, University of Nevada, 2006
UC Davis, 2009

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

Editorial Boards

Editorial Board, Topology and Its Applications, 1986-98
Editorial Board, Proceedings of the AMS, 1992-96
Editorial Board, New York Journal of Mathematics, 1993- 2011
Editorial Board, Geometry and Topology, 1996-
Editorial Board, Gokova Journal of Geometry and Topology, 2007-2010
Editorial Board, Chair, Geometry and Topology Monographs 2000-2012

Board of Governors of Pacific Math Journal (1992-)
 President and Chair of the Board of Governors (1995-2011)
 Treasurer 2011-
Project Euclid Advisory Board (2004- 2009)
Mathematical Sciences Publishers Board of Directors (2004-)
 Treasurer 2011-

American Mathematical Society:

 Western Section Speaker Selection Committee
 1986-88 (Chairman 1987-88)
 1991-1993 (Chairman 1992-93)
 Committee on the Profession (1993-99, 2012-13)
 Chair of Subcommittee on Prizes, 1994-99
 American Mathematical Society 2000 Organizing Committee
 AMS Task Force on Membership 1998-99
 AMS Committee on Publications 1999-2002
 AMS Committee on Committees 2000-05
 Chair 2003-2005
 AMS Graduate Studies in Mathematics Editorial Committee 1999-2002
 AMS Mathematical Reviews Editorial Committee 2002-2007
 AMS Task Force on Prizes 2002-04
 AMS Committee to Select the Winner of the 2007 Oswald Veblen Prize 2006-07
 AMS Science Policy Committee, 2007-2010
 Chair 2008-2010
 AMS Committee on Education, 2009-11
 AMS Elected member of the Board of Trustees, 2009-2014
 Chair, 2012
 AMS Investment Committee 2009-

Joint Policy Board of the Mathematical Sciences:

 Chair of the Department Chairs Committee (1993-95)

Board of Trustees for the Mathematical Science Research Institute (MSRI) Berkeley, CA,
1991-96

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

Secretary of the Board, 1992-96
Steering Committee, 1992-96
Capital Campaign Committee, 2001-2004

Alfred P. Sloan Foundation Mathematics Selection Committee, 1999-2005
Topology Speaker Selection Panel, 2006 International Congress of Mathematicians
Vice-President of Phi Beta Kappa Mu Chapter, California, 2003 -2004
President of Phi Beta Kappa Mu Chapter, California, 2004-2005
Steering Committee, Park City Mathematics Institute, 2006-
Board of Trustees, IPAM 2011-

Conference Organizer since 1990's

Member of the MSRI Organizing Committee for the 1996-97 Program in Low Dimensional Topology
Chair of the Program Committee for the 1997 4-Manifold Workshop, MSRI, Jan. 1997
Member of the Organizing Committee for 4-manifold meetings at Oberwolfach Math Institute, Germany (1988, 1992, 1996, 2001, 2006)
Member of the Organizing Committee for the International Conferences in Topology, Gokova, Turkey (1993, 1994, 1995, 1996, 1998, 2000, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009)
Chair of Banff International Research Station for Mathematical Innovation and Discovery
Topology Workshop, September 2005, October 2006, February 2007, March 2012

Community Boards since 1997

Chair of the Advisory Board for the Orange County Mathematics Project, 1997-99
California Mathematics Project Executive Committee, 1999-2002
Member of State Board for the California Math Project, 1999-2001
American Red Cross Orange County Chapter Board Member, 2000-2001
Taco Bell Discovery Science Center Board Member, 2001-2002
Orange County Teachers Federal Credit Union President's Forum, 2003-2006
Science@Orange County Advisory Committee, 2003- 2005
Irvine Campus Housing Authority Board of Directors, 2004-2102
Treasurer 2008-2012

University of California Committees

Systemwide K-12 Mathematics Education Advisory Council, 1990-93
Systemwide Advisory Committee for All-University Mathematics Faculty Conference
1990-1
UC Academic Senate (Alternate), 1996-98

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

Member of UC Housing Task Force, 2001-06

Member of Science and Mathematics Initiative Task Force, 2004-06

Member of Dean's Compensation Committee 2008-2009

UCI Committees

UCI Campuswide Statistics Planning Committee, 1990-2, 2001

UCI Faculty Development Committee, 1990-92

UCI Science Education Advisory Board, 1990-2000

UCI TOP Task Force, 1991

Academic Planning Council, 1991-93

Committee on Committees, 1992-95

ICS Internal Review Committee, 1996

Dept. of Education Chair selection committee, 1996

Dean of Graduate Studies Advisory Committee for the Dept. Of Education, 1996-99

School of Medicine Statistician Search Committee, 1996

Chair of CAP Ad Hoc committees, 1995,96,97

Campuswide Reform Initiative for Undergraduate Education Committee (SMET),
1997-1999

Vice Chancellor for Communications Search Committee, 2000

Principal Investigator for COSMOS program, 1999-2006

Principal Investigator for FOCUS! Program, 2002-2007

Faculty Director for McNair Scholars Program, 1999-2003

School of the Arts Dean Review Committee, 2000

Chair of School of Engineering Dean Review Committee, 2001

Chair of College of Medicine Dean Review Committee, 2004

Advancement Study Group, 2001

Vice Chancellor for Advancement Search Committee, 2001-02

Social Sciences Dean Search Committee, 2002

Chancellor Advisory Committee on the Status of Staff, Co-Chair, 2002-2004

UCI Undergraduate Task Force, 2003-4

Chair, AVC Housing Search Committee, 2003

School of Arts Dean Selection Committee, 2008-9

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

Refereed Research Publications

1. The tangent microbundle of a suitable manifold. *Proc. Amer. Math. Soc.* **32** (1972), 324--326. **MR0292087 (45 #1174)**
2. The number of roots in a simply-connected H-manifold. *Trans. Amer. Math. Soc.* **170** (1972), 499--505. **MR0307227 (46 #6347)** (with Brown, Robert F)
3. Stability implies normal and disc bundles. *Bull. Amer. Math. Soc.* **79** (1973), 133--135. **MR0310880 (46 #9978)**
4. On topological and piecewise linear vector fields. *Topology* **14** (1975), no. 3, 257--269. **MR0394659 (52 #15460)**
5. Resolutions of homology manifolds: a classification theorem. *J. London Math. Soc. (2)* **11** (1975), no. 4, 474--480. **MR0385875 (52 #6734)** (with Edmonds, Allan L)
6. Classification theorems for parameterized families of smooth or piecewise linear manifold structures respecting a submanifold. *Illinois J. Math.* **21** (1977), no. 1, 190--219. **MR0433460 (55 #6436)**
7. Classification of simplicial triangulations of topological manifolds. *Bull. Amer. Math. Soc.* **82** (1976), no. 6, 916--918. **MR0420637 (54 #8650)** (with Galewski, David E)
8. The relationship between homology and topological manifolds via homology transversality. *Invent. Math.* **39** (1977), no. 3, 277--292. **MR0445507 (56 #3847)** (with Galewski, David E)
9. Simplicial triangulations of topological manifolds, *Amer. Math. Soc. Proc. of Symp. in Pure Math.* **32**(1977), 65-70. (with Galewski, David E)
10. PL homology 3-spheres and triangulations of manifolds. Proceedings of the 1977 Topology Conference (Louisiana State Univ., Baton Rouge, La., 1977), II. *Topology Proc.* **2**(1977), no. 2, 621--630 (1978). **MR0540631 (80k:57038)**
11. Classification of simplicial triangulations of topological manifolds. *Ann. of Math. (2)* **111** (1980), no. 1, 1--34. **MR0558395 (81f:57012)** (with Galewski, David E)
12. Orientation-reversing involutions on homology S^3 -spheres. *Math. Proc. Cambridge Philos. Soc.* **85** (1979), no. 3, 449--451. **MR0520461 (81c:57009)** (with Galewski, David E)
13. A universal 5-manifold with respect to triangulations, *Proceedings of 1976 Georgia*

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

- Topology Conference*, Academic Press, 1979, 345-350. (with Galewski, David E)
14. Constructing lens spaces by surgery on knots. *Math. Z.* **175** (1980), no. 1, 33--51. **MR0595630 (82i:57009a)**, Addendum 178(1981),143. (with Ronald A. Fintushel)
 15. An exotic free involution on S^4 . *Ann. of Math. (2)* **113** (1981), no. 2, 357--365. **MR0607896 (84g:57036)** (with Ronald A. Fintushel)
 16. Seifert fibered 3-manifolds and nonorientable 4-manifolds. *Low-dimensional topology (San Francisco, Calif., 1981)*, 103--119, Contemp. Math., 20, Amer. Math. Soc., Providence, RI, 1983. **MR0718136 (85e:57011)** (with Ronald A. Fintushel)
 17. Smooth free involutions on homotopy $4k$ -spheres. *Michigan Math. J.* **30** (1983), no. 1, 37--51. **MR0694927 (84f:57025)** (with Ronald A. Fintushel)
 18. Instantons and the topology of 4-manifolds. *Math. Intelligencer* **5** (1983), no. 3, 39--44. **MR0737689 (85d:57011)** (has been translated into Czech, Russian and Finnish).
 19. Another construction of an exotic $S^1 \times S^3 \# S^2 \times S^2$. *Four-manifold theory (Durham, N.H., 1982)*, 269--275, Contemp. Math., 35, Amer. Math. Soc., Providence, RI, 1984. **MR0780583 (86g:57013)** (with Ronald A. Fintushel)
 20. A μ -invariant one homology 3-sphere that bounds an orientable rational ball. *Four-manifold theory (Durham, N.H., 1982)*, 265--268, Contemp. Math., 35, Amer. Math. Soc., Providence, RI, 1984. **MR0780582 (86f:57013)** (with Ronald A. Fintushel)
 21. $SO(3)$ -connections and the topology of 4 -manifolds. *J. Differential Geom.* **20** (1984), no. 2, 523--539. **MR0788294 (86k:57014)** (with Ronald A. Fintushel)
 22. Gauge theories as a tool for low dimensional topologists, in Perspectives in mathematics. Anniversary of Oberwolfach 1984. Edited by W. Jäger, J. Moser and R. Remmert. *Birkhäuser Verlag, Basel*, 1984. 587 pp. ISBN: 3-7643-1624-1 **MR0779667 (86d:00009)** 497-508.
 23. Pseudofree orbifolds. *Ann. of Math. (2)* **122** (1985), no. 2, 335--364. **MR0808222 (87a:57027)** (with Ronald A. Fintushel)
 24. $O(2)$ actions on the 5-sphere. *Invent. Math.* **87** (1987), no. 3, 457--476. **MR0874031 (88e:57032)** (with Ronald A. Fintushel)
 25. Rational homology cobordisms of spherical space forms. *Topology* **26** (1987), no. 3, 385--393. **MR0899056 (89d:57051)** (with Ronald A. Fintushel)

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

26. Definite 4-manifolds. *J. Differential Geom.* **28** (1988), no. 1, 133--141. **MR0950558 (89i:57006)** (with Ronald A. Fintushel)
27. Differential geometric invariants for homology three spheres. *Algebra and topology 1988 (Taej\u on, 1988)*, 99--122, *Korea Inst. Tech., Taej\u on, 1988*. **MR1022250 (91b:57022)**
28. Instanton homology of Seifert fibred homology three spheres. *Proc. London Math. Soc. (3)* **61** (1990), no. 1, 109--137. **MR1051101 (91k:57029)** (with Ronald A. Fintushel)
29. K3 surfaces containing $\Sigma(2,3,7)$. *J. Differential Geom.* **34** (1991), no. 1, 255--265. **MR1114462 (92g:57037)** (with Ronald A. Fintushel)
30. Invariants for homology 3-spheres. *Geometry of low-dimensional manifolds, I (Durham, 1989)*, 125--148, London Math. Soc. Lecture Note Ser., 150, *Cambridge Univ. Press, Cambridge, 1990*. **MR1171895 (93e:57025)** (with Ronald A. Fintushel)
31. Integer graded instanton homology groups for homology three-spheres. *Topology* **31** (1992), no. 3, 589--604. **MR1174261 (93f:57018)** (with Ronald A. Fintushel)
32. 2-torsion instanton invariants. *J. Amer. Math. Soc.* **6** (1993), no. 2, 299--339. **MR1168958 (93f:57038)** (with Ronald A. Fintushel)
33. A fake 4-manifold with $\chi_1 = \mathbf{Z}$ and $b_+ = 4$. *Turkish J. Math.* **18** (1994), no. 1, 1--6. **MR1270433 (95c:57052)** (with Ronald A. Fintushel)
34. Surgery in cusp neighborhoods and the geography of irreducible 4-manifolds. *Invent. Math.* **117** (1994), no. 3, 455--523. **MR1283727 (95f:57040)** (with Ronald A. Fintushel)
35. Immersed 2-spheres in 4-manifolds: lectures for the XI ELAM, August 1993. *XI Latin American School of Mathematics (Spanish) (Mexico City, 1993)*, 311--353, *Aportaciones Mat. Comun.*, 15, *Soc. Mat. Mexicana, México, 1995*. **MR1360934 (96j:57043)**
36. Using Floer's exact triangle to compute Donaldson invariants, The Floer memorial volume, *Progr. Math.*, 133 (1995), Birkhäuser, Basel, 435-444. **MR1362836 (96j:57042)** (with Ronald A. Fintushel)
37. Donaldson invariants of 4-manifolds with simple type. *J. Differential Geom.* **42** (1995), no. 3, 577--633. **MR1367403 (96k:57028)** (with Ronald A. Fintushel)
38. Immersed spheres in 4-manifolds and the immersed Thom conjecture. *Turkish J. Math.* **19** (1995), no. 2, 145--157. **MR1349567 (96j:57036)** (with Ronald A. Fintushel)
39. The blowup formula for Donaldson invariants. *Ann. of Math. (2)* **143** (1996), no. 3,

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

- 529--546. **MR1394968** (97i:57036) (with Ronald A. Fintushel)
40. Rational blowdowns of smooth 4-manifolds. *J. Differential Geom.* **46** (1997), no. 2, 181--235. **MR1484044** (98j:57047) (with Ronald A. Fintushel)
41. A fake smooth $\mathbb{C}P^2 \# \mathbb{R}P^4$. *Math. Res. Lett.* **4** (1997), no. 2-3, 375--378. **MR1453067** (98d:57043) (with Ruberman, Daniel)
42. Surfaces in 4-manifolds. *Math. Res. Lett.* **4** (1997), no. 6, 907--914. **MR1492129** (98k:57047)
43. Knots, Links, and 4-manifolds (with R. Fintushel), *Inventiones Mathematicae* 134 (1998), 363-400. (with Ronald A. Fintushel)
44. Computing Donaldson invariants. *Gauge theory and the topology of four-manifolds (Park City, UT, 1994)*, 145--194, IAS/Park City Math. Ser., 4, *Amer. Math. Soc., Providence, RI*, 1998. **MR1612969** (99e:57046)
45. Constructions of smooth 4-manifolds. Proceedings of the International Congress of Mathematicians, Vol. II (Berlin, 1998). *Doc. Math.* **1998**, Extra Vol. II, 443--452 (electronic). **MR1648094** (99g:57033) (with Ronald A. Fintushel)
46. Nondiffeomorphic symplectic 4-manifolds with the same Seiberg-Witten invariants. *Proceedings of the Kirbyfest (Berkeley, CA, 1998)*, 103--111 (electronic), *Geom. Topol. Monogr.*, 2, *Geom. Topol. Publ., Coventry*, 1999. **MR1734403** (2000j:57065) (with Ronald A. Fintushel)
47. Symplectic surfaces in a fixed homology class. *J. Differential Geom.* **52** (1999), no. 2, 203--222. **MR1758295** (2001j:57036) (with Ronald A. Fintushel)
48. Nonsymplectic 4-manifolds with one basic class. *Pacific J. Math.* **194** (2000), no. 2, 325--333. **MR1760784** (2001g:57060) (with Ronald A. Fintushel)
49. The canonical class of a symplectic 4-manifold. *Turkish J. Math.* **25** (2001), no. 1, 137--145. **MR1829084** (2002g:57053)
50. Rational surfaces and symplectic 4-manifolds with one basic class. *Algebr. Geom. Topol.* **2** (2002), 391--402. **MR1917059** (2003f:57063) (with Ronald A. Fintushel)
51. Families of simply-connected 4-manifolds with the same Seiberg-Witten invariants, *Topology* (2004), **43**, 1449-1467. **MR2081432** (2005d:57044) (with Ronald A. Fintushel)
52. Invariants for Lagrangian Tori, *Geom. Topol.* **8** (2004), 949--968. **MR2087074 (2005h:**

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

- 57046)** (with Ronald A. Fintushel)
53. Tori in Symplectic 4-manifolds , Geometry and Topology Monographs, **7** (2004), 311—333. **MR2172489** (with Ronald A. Fintushel)
54. Double node neighborhoods and families of simply-connected 4-manifolds with $b^+=1$, *J. Amer. Math. Soc.*, **19** (2006), 171-180. **MR2169045 (2006h:57024)** (with Ronald A. Fintushel)
55. Will we ever classify simply-connected smooth 4-manifolds? CMI/AMS Book Series, *Floer Homology, Gauge Theory and Low Dimensional Topology* (2006), 225-240. **MR2249255 (2007f:57060)**
56. A Celebration of Science— Why not mathematics? *Notices of the American Mathematical Society* **53** (2006), 759-760.
57. Six Lectures on Four 4-manifolds, IAS/Park City Mathematics Series, Volume 515 265-315, (with Ronald A. Fintushel)
58. Reverse engineering small 4-manifolds, *Algebraic & Geometric Topology* **7** (2007) 2103-2116. **MR2366188 (2009h:57044)** (with Ronald Fintushel, B Doug Park)
59. Surgery on nullhomologous tori and simply connected 4-manifolds with $b^+=1$, *Journal of Topology* **1** (2008), 1-15. **MR2365649 (2008k:57050)** (with Ronald A. Fintushel)
60. Exotic group actions on simply-connected smooth 4-manifolds, R.A. Fintushel, R.J. Stern, and N. Sunukjian, *Journal of Topology* **2** (2009), 769-822
61. Pinwheels and nullhomologous surgery on 4-manifolds with $b^+=1$, R.A. Fintushel, and R.J. Stern, *Algebraic & Geometric Topology* **11** (2011) 1649–1699
62. [Surgery on Nullhomologous Tori](#), R.A. Fintushel, and R.J. Stern, *Geometry and Topology Monographs* **18** (2012) 61-81

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

Books Edited

1. Proceedings of Gökova Geometry-Topology Conference 1994. Held in Gökova, May 30--June 3, 1994. Edited by Selman Akbulut, Turgut Önder and Ronald J. Stern. Reprint of Turkish J. Math. **19** (1995), no. 2. *Scientific and Technical Research Council of Turkey, Ankara*, 199?. viii+88 pp. ISBN: 975-403-023-5 **MR1389024** (97f:00024)
2. Proceedings of Gökova Geometry-Topology Conference 1995. Held in Gökova, May 29--June 2, 1995. Edited by Selman Akbulut, Turgut Önder and Ronald J. Stern. Reprint of Turkish J. Math. **20** (1996), no. 1. *Scientific and Technical Research Council of Turkey, Ankara*, 1996. x+141 pp. ISBN: 975-403-040-5 **MR1486865** (98f:57002)
3. Topics in symplectic 4-manifolds. 1st International Press Lectures presented at the University of California, Irvine, CA, March 28--30, 1996. Edited by Ronald J. Stern. First International Press Lecture Series, I. *International Press, Cambridge, MA*, 1998. iv+124 pp. ISBN: 1-57146-019-5 **MR1635696** (99b:57001)
4. Proceedings of 6th Gökova Geometry-Topology Conference. Held in Gökova. Turkish J. Math. **23** (1999), no. 1. *Scientific and Technical Research Council of Turkey, Ankara*, 1999. pp. 1--231. **MR1716822** (2000e:57001)
5. Proceedings of Gökova Geometry-Topology Conference 2000. Held in Gökova, May 29--June 2, 2000. Edited by Selman Akbulut, Turgut Önder, and Ronald J. Stern. Scientific and Technical Research Council of Turkey, Ankara, 2001. x+243 pp. ISBN: 975-403-208-4
6. Proceedings of Gökova Geometry-Topology Conference 2001. Held in Gökova, May 28--June 1, 2001. Edited by Selman Akbulut, Turgut Önder, and Ronald J. Stern. Scientific and Technical Research Council of Turkey, Ankara, 2002. x+130 pp. ISBN: 975-403-251-3
7. Proceedings of Gökova Geometry-Topology Conference 2002. Held in Gökova, May 27--31, 2002. Edited by Selman Akbulut, Turgut Önder, and Ronald J. Stern. Scientific and Technical Research Council of Turkey, Ankara, 2003. x+243 pp. ISBN: 975-403-279-3
8. Proceedings of Gökova Geometry-Topology Conference 2003. Edited by Selman Akbulut, Turgut Önder, and Ronald J. Stern. Scientific and Technical Research Council of Turkey, Ankara, 2003. 100 pp. ISBN: 975-403-334-X. **MR2085573**
9. Proceedings of Gökova Geometry-Topology Conference 2005, Edited by Selman Akbulut, Turgut Önder, and Ronald J. Stern. Scientific and Technical Research Council of Turkey, Ankara, 2005. 212 pp. ISBN: 1-57146-152-3 (<http://www.intlpress.com/books/Books-Gokova-2005.php>)

Curriculum Vita
Ronald J. Stern
Professor Emeritus of Mathematics

10. Proceedings of Gökova Geometry-Topology Conference 2006, Edited by Selman Akbulut, Turgut Önder, and Ronald J. Stern. Scientific and Technical Research Council of Turkey, Ankara, 2006. 146 pp. ISBN: 978-1-57146-164-3 (<http://www.intlpress.com/books/Books-Gokova-2006.php>)

11. Proceedings of Gökova Geometry-Topology Conference 2007, Edited by Selman Akbulut, Turgut Önder, and Ronald J. Stern. Scientific and Technical Research Council of Turkey, Ankara, 2006. 126 pp. ISBN 978-1-57146-107-0(<http://www.intlpress.com/books/BooksGokova-2006.php>)