

**Curriculum Vita of
STEVEN DALE CUTKOSKY**

Address

Department of Mathematics, University of Missouri
Columbia, Missouri-65211, U.S.A

Date of Birth

November 5, 1958, Washington D.C.

Education

Ph.D. 1985 Brandeis University, Waltham, MA 02254
B.S. 1981 Indiana University, Bloomington, IN 47003

Research Areas

Algebraic Geometry and Commutative Algebra

Positions Held since Ph.D

- (1) Curator's Professor, University of Missouri, since December 2001.
- (2) General Member, Mathematical Sciences Research Institute, Aug 2002 - Dec 2002.
- (3) Professor, University of Missouri, since September 1995.
- (4) Visiting Professor, Chennai Mathematical Institute, Chennai (Madras), India, Oct 1999 - Jan 2000.
- (5) Visiting Professor, Northeastern University, Jan 2000 - June 2000.
- (6) Associate Professor, University of Missouri, Aug 1991-July 1995
- (7) Assistant Professor, University of Missouri, Aug 1989-July 1991
- (8) Visiting Professor, Universität Essen, Germany, May-June 1995
- (9) Visiting Professor, Chennai Mathematical Institute, Chennai (Madras), India, June 1994 - July 1994.
- (10) Visiting Professor, Tata Inst. of Fundamental Research, India, Spring 1991
- (11) Visiting Assistant Professor, Purdue University, Aug 1988-July 1989
- (12) Ritt Assistant Professor, Columbia University, Aug 1985-July 1988

Awards and Grants

- (1) Curator's Professor at University of Missouri, since December, 2001.
- (2) AMS Invited Address, Lawrence, Kansas, March 31, 2001, "Monomialization of Morphisms".
- (3) NSF Research grant: July 2000-June 2003.
- (4) National Board of Higher Mathematics, Short Term Visitors Grant, Government of India, 10/99 - 1/00.
- (5) NSF Research grant: July 1997-June 2000.
- (6) NSF Research grant: July 1994-June 1997.
- (7) 1994 Chancellor's Award for Outstanding Faculty Research and Creative Activity in the Physical and Mathematical Sciences. (University of Missouri, Columbia).
- (8) NSF Research grant: July 1992-June 1994.
- (9) NSF Research grant: July 1990-June 1992.
- (10) Fulbright Research Grant: Jan 1991-April 1991.
- (11) NSF Research grant: July 1988-June 1990.
- (12) NSF Research grant July 1987-June 1988.
- (13) Sloan Pre Doctoral Fellow July 1984-June 1985.

Editor Illinois Journal of Mathematics, 1995–1998

Book Edited

Proceedings of the Conference on Hilbert Schemes, Vector Bundles and their Interplay with Representation Theory, Columbia, Missouri (2002). Contemporary Math. (2003), American Mathematical Society.
Co-edited with Dan Edidin, Zhenbo Qin and Qi Zhang.

Conferences Organized

- (1) Workshop on Resolution of Singularities, factorization of birational mappings and toroidal geometry, to be held Dec. 11-16, 2004 at Banff International Research Station. (co-organized with Ed Bierstone, Kenji Matsuki, Phil Millman and Jarek Włodarczyk)
- (2) Research in Teams on Local Uniformization and Resolution of Singularities, August 16 - September 6, 2003 (co-organized with Franz-Viktor Kuhlmann).
- (3) Hilbert Schemes and Vector Bundles, University of Missouri, Columbia, April 5-7, 2002. (co-organized with Dan Edidin, Zhenbo Qin and Qi Zhang).
- (4) Algebra Weekend, University of Missouri, Columbia, Oct. 21-22, 2001. (Co-organized with Hema Srinivasan).
- (5) Midwest Algebraic Geometry Conference, University of Missouri-Columbia, Oct. 9-10, 1999. (Co-organized with Dan Edidin and Qi Zhang).

- (6) Commutative Algebra, AMS special session, Columbia, MO, November 1-3, 1996 Co-organized with H. Srinivasan).
- (7) Interactions between Commutative Algebra and Algebraic Geometry, Columbia, MO, May 28-30 1993 (Co-organized with Hema Srinivasan)
- (8) MidWest-Great Plains Workshop in Commutative Algebra, Columbia, MO, June 15-16 1991 (Co-organized with J.Huckaba, I.Papick, H.Srinivasan and D.Weston)

Ph.D. Students

- (1) Olga Kashcheyeva. Thesis in preparation on “Monomialization of strongly prepared morphisms to surfaces”, Ph.D. expected in 2003.
- (2) Russell Goward, Thesis: “Principalization of ideals generated by monomials”, May 2001. Currently Research Assistant Professor at the University of Michigan.
- (3) Kent Neuerburg, Thesis: ”On Puiseux series and resolution Graphs”, May 1998. Assistant Professor at Southeastern Louisiana State University since August, 1998. “Characteristic Pairs along the resolution sequence” in Rocky Mountain Journal of Mathematics, 2000. He recently gave a talk on “Implementation of Newton’s Algorithm” at the AMS/MAA/SIAM joint meeting, New Orleans, LA, Jan. 2001.

Post Doctoral Mentoring

- (1) Mentor for Tai Ha, since August 2001.
- (2) Mentor for Laura Ghezzi, since August 2001.
- (3) Advisor for Dan Edidin, NSF Post Doctoral Fellowship, August 1995 - June 1996. Currently Associate Professor at University of Missouri.
- (4) Mentor for Alexandre Tchernev, August 1998 - 1999. Assistant Professor at SUNY, Albany since August 1999.

Masters Students

- (1) Tricia Murphy, Thesis: “Pfaffians”, 1994.
- (2) Heidi Hu, Thesis: “Embedded resolution of plane curve singularities”, 1998.
- (3) Thomas Pyle, Thesis: “Puiseux series expansions in positive characteristic”, 1999.

Publication List of Steven Dale Cutkosky

- (1) *Zariski decomposition of divisors on algebraic varieties*, Duke Math. J. 53 (1986), 149–156.
- (2) *Factorization of complete ideals*, J. Algebra 115 (1988), 144–149.
- (3) *Elementary contractions of gorenstein threefolds*, Math. Ann. 280 (1988), 521–525.
- (4) *Weil divisors and symbolic algebras*, Duke Math. J. 57 (1988), 175–183.
- (5) *On unique and almost unique factorization of complete ideals*, Amer. J. Math. 111 (1989), 417–433.
- (6) *On unique and almost unique factorization of complete ideals II*, Inventiones Math. 98 (1989), 59–74.
- (7) *On Fano 3-folds*, Manuscripta Math. 64 (1989), 189–204.
- (8) *A new characterization of rational surface singularities*, Inventiones Math. 102 (1990), 157–177.
- (9) *Symbolic algebras of monomial primes*, Journal für die reine und angewandte Mathematik (Crelle’s Journal). 416 (1991), 71–89.
- (10) *When are the blow ups of two ideals the same scheme?*, Communications in Algebra. 19 (1991), 1119–1124.
- (11) *On a problem of Zariski on dimensions of linear systems*, (with V. Srinivas), Annals of Mathematics, 137 (1993), 531–559.
- (12) *Local fundamental groups of surface singularities in characteristic p* , (with H. Srinivasan), Comment. Math. Helvetici 68 (1993), 319–332.
- (13) *An intrinsic Criterion for Isomorphism of Singularities*, (with H. Srinivasan), Amer. J. Math 115 (1993), 789–822.
- (14) *Periodicity of the fixed locus of multiples of a divisor on a surface*, (with V. Srinivas), Duke Math. J. 72 (1993), 641–647.
- (15) *Complete ideals in algebra and geometry*, Contemporary Math., 159 (1994), 27–39.
- (16) *Purity of the Branch Locus*, in Commutative Algebra, W. Bruns, J. Herzog, M. Hochster, U. Vetter, eds, Verlag Druckerei Runge GmbH, Cloppenburg, (1994), 47–50.
- (17) *A vanishing theorem for local rings*, Appendix to *Adjoints of ideals in regular local rings*, J. Lipman, Mathematical Research Letters 1 (1994), 752–754.
- (18) *Purity of the branch locus and Lefschetz theorems*, Compositio Math. 96 (1995), 173–195.
- (19) *Simple connectedness of projective varieties*, Proc. Amer. Math. Soc. 125 (1997), 679–684.
- (20) *Equivalence and finite determinacy of mappings*, (with H. Srinivasan), Journal of Algebra 188 (1997), 16–57.
- (21) *Local factorization of birational maps*, Advances in Math 132 (1997), 167–315 (subject of “featured review” 99c:14018 in Mathematical Reviews).
- (22) *Cohen Macaulay coordinate rings of blowup schemes*, (with J. Herzog), Comm. Math. Helvetici 72 (1997), 605–617.
- (23) *Asymptotic behaviour of the Castelnuovo-Mumford regularity*, (with J. Herzog and Ngô Việt Trung), Compositio Math. 118 (1999), 243–261.

- (24) *Local factorization and monomialization of morphisms*, Astérisque no. 260 (1999), 143 pages.
- (25) *Monomialization of Morphisms*, the Proceedings of the 21st Symposium on Commutative Algebra, held in Tokyo, Japan, Nov. 23-26, 1999.
- (26) *Asymptotic regularity of ideals*, the Proceedings of the 21st Symposium on Commutative Algebra, held in Tokyo, Japan, Nov. 23-26, 1999.
- (27) *Simultaneous Resolution of Singularities*, Proc. Amer. Math. Soc. 128 (2000), 1905-1910.
- (28) *The algebraic fundamental group of the complement of a curve singularity* (with H. Srinivasan), J. algebra 230 (Buchsbaum Volume) (2000), 101-126.
- (29) *Vanishing of differentials along ideals and non-archimedean approximation* (with R. Hübl), Math. Annalen 317 (2000), 295-308.
- (30) *Irrational Asymptotic Behaviour of Castelnuovo regularity*, Journal für die reine und angewandte Mathematik 522 (2000), 93-103.
- (31) *Valuations in Algebra and Geometry*, in Singularities in Algebraic and Analytic Geometry, Caroline Grant Melles, Ruth I Michler eds., Contemporary Mathematics 266 (2000), 45-64.
- (32) *Monomial resolutions of morphisms of algebraic surfaces* (with O. Piltant), Communications in Algebra 28 (Special Issue in honor of Hartshorne) (2000), 5935-5960.
- (33) *Towards a criterion for isomorphism of complexes*, (with Hema Srinivasan), in Ideal theoretic methods in commutative algebra, (Columbia MO 1999), Lecture Notes in Pure and Applied Mathematics 220, Dekker NY, 2001.
- (34) *Local Monomialization*, in Geometric and combinatorial aspects of commutative algebra (Messina 1999), Lecture Notes in Pure and Applied Algebra 217, Dekker NY, 2001.
- (35) *Isomorphism of complexes and lifts* (with Hema Srinivasan), in Geometric and combinatorial aspects of commutative algebra (Messina 1999), Lecture Notes in Pure and Applied Algebra 217, Dekker NY, 2001.
- (36) *Positivity and Complexity of Ideals Sheaves*, (with Lawrence Ein and Robert Lazarsfeld), Math. Annalen 321, (2001) 213-234.
- (37) *Resolution of Morphisms*, in "Valuation Theory and its Applications. Volume I", Fields Institute Communications, 2002.
- (38) *The Structure of Morphisms*, to appear in the proceedings of a conference in honor of Abhyankar's 70th Birthday.
- (39) *Monomialization of Morphisms from 3 Folds to Surfaces*, Springer Lecture notes, LNM 1786 (2002). Mathematics arXiv, Math. AG 0010002.
- (40) *Generically finite morphisms and simultaneous resolution of singularity*, to appear in contemporary mathematics, www.math.missouri.edu/cutkosky.
- (41) *Ramification of Valuations and Singularities*, to appear in the proceedings of the International Conference on Algebra and Geometry, University of Hyderabad, Hyderabad, India, December 7 - 12, 2001, Hindustan Book Agency.
- (42) *Poincaré series of line bundles on varieties*, to appear in a volume in honor of Professor Seshadri's 70th birthday.

- (43) *Ramification of Valuations*, with Olivier Piltant, to appear in *Advances in Mathematics*, www.math.missouri.edu/~cutkosky.
- (44) *Monomialization of Strongly Prepared Morphisms to surfaces*, with Olga Kashcheyeva, preprint, www.math.missouri.edu/~cutkosky.
- (45) *Resolution of Singularities*, Lecture Notes, preprint, www.math.missouri.edu/~cutkosky.
- (46) *Arithmetic Macaulayfication of Projective Schemes*, with Hà Huy Tài, to appear in *Journal of pure and applied algebra*, www.math.missouri.edu/~cutkosky.
- (47) *Poincaré Series of Resolutions of Surface Singularities*, with Anna Reguera and Jürgen Herzog, preprint, www.math.missouri.edu/~cutkosky.
- (48) *Local Monomialization of Transcendental Extensions*, preprint, *Mathematics arXiv*, AG/0212184.

INVITED TALKS

- (1) Colloquium Talk: University of Notre Dame, Indiana, March 1985, "Zariski Decomposition".
- (2) Colloquium Talk: Wellesley College, Wellesley, Ma., March 1985, "Zariski Decomposition".
- (3) Colloquium Talk: Suffolk University, Boston, Mass. April 1985, "Zariski Decomposition".
- (4) Algebraic Geometry Seminar: Columbia University, New York, April 1985, "Zariski Decomposition".
- (5) Algebraic Geometry Seminar: Columbia University, New York, October 1986, "Counterexamples to a Conjecture of Fujita".
- (6) Seminar Talk: Michigan State University, January 1987, "Symbolic Algebras".
- (7) Colloquium Talk: Setton Hall University, NJ, 1987, "Complete Ideals".
- (8) Three Folds Conference, Columbia University, 1987, "Finite Generation of Symbolic Algebras".
- (9) Algebraic Geometry Seminar, Columbia University, 1987, "On unique and almost unique factorization of complete ideals".
- (10) Seminar Talk: University of Pennsylvania, February 1988, "Unique and semi-unique factorization of complete ideals".
- (11) Colloquium Talk: University of Notre Dame February 1988, "Unique and semi-unique factorization of complete ideals".
- (12) Colloquium Talk: University of Missouri, February 1988, "Unique and semi-unique factorization of complete ideals".
- (13) Seminar Talk: Purdue University, February 1988, "Unique and semi-unique factorization of complete ideals".
- (14) Colloquium Talk: Oklahoma State University, March 1988, "Unique and semi-unique factorization of complete ideals".
- (15) Colloquium Talk: Louisiana State University, March 1988, "Unique and semi-unique factorization of complete ideals".
- (16) Special session in Commutative Algebra, American Mathematical Society (AMS) meeting, Knoxville, Tennessee, March 1988, "Unique and semi-unique factorization of complete ideals".
- (17) Seminar Talk: Michigan State University, April 1988, "Unique and semi-unique factorization of complete ideals".
- (18) Seminar Talk: University of Utah, April 1988, "Unique and semi-unique factorization of complete ideals".
- (19) Seminar Talk: Purdue University, November 1988, "On Fano 3 folds".
- (20) Seminar Talk: Purdue University, May 1989, "An intrinsic criterion for isomorphism of singularities".
- (21) Special Session in Algebraic Geometry, AMS meeting in Louisville, Kentucky, January 1990, "An intrinsic Criterion for isomorphism of singularities".
- (22) Colloquium Talk: Washington University, St.Louis, December 1990, "An intrinsic criterion for isomorphism of singularities".

- (23) Colloquium Talk: Tata Institute of Fundamental Research, India, February 1991, "An intrinsic criterion for isomorphism of singularities".
- (24) Colloquium Talk: SPIC Science Foundation, Madras, India, March 1991, "An intrinsic criterion for isomorphism of singularities".
- (25) Colloquium Talk: Institute of Mathematical Sciences, Madras, India, March 1991, "On unique and almost unique factorization of complete ideals".
- (26) Mid West-Great Plains Workshop in Commutative Algebra, Columbia, Missouri, June 1991, "On unique and almost unique factorization of complete ideals".
- (27) Special Session in Commutative Algebra, AMS Orono Mathfest, Maine, August 1991, "The Riemann Roch Problem".
- (28) Colloquium Talk: University of Kansas, September 1991, "The Riemann Roch Problem".
- (29) Special Session in Commutative Algebra, AMS meeting, Fargo, ND, October 1991, "The Riemann Roch Problem".
- (30) Special Session in Commutative Algebra, AMS meeting, Springfield, Missouri, March 1992, "An intrinsic criterion for isomorphism of singularities".
- (31) AMS-IMS-SIAM Joint Summer Research conference, Commutative Algebra: Syzygies, Multiplicities and Birational Algebra, Mt.Holyoke, July 4-9, 1992: (hour talk), "Complete Ideals".
- (32) AMS-IMS-SIAM Joint Summer Research conference, Commutative Algebra: Syzygies, Multiplicities and Birational Algebra, Mt.Holyoke, July 4-9, 1992, The Birational Algebra Seminar (half-hour talk) "Purity of the branch locus and Lefschetz Theorems".
- (33) Colloquium Talk: University of Kansas, October 1992, "Purity of the branch locus and Lefschetz Theorems".
- (34) Special Session in Theory of Rings and Modules, AMS Meeting, Salt Lake City, Utah, April 1993, "Purity of the branch locus and Lefschetz Theorems".
- (35) Algebraic Geometry Seminar: Harvard University, October 1993, "The Riemann Roch Problem".
- (36) Seminar Talk: Northeastern University, October 1993, "Purity of the branch locus and Lefschetz Theorems".
- (37) Seminar Talk: Rutgers University, November 1993, "Purity of the branch locus and Lefschetz Theorems".
- (38) Seminar Talk: Johns Hopkins University, March 1994, "The Riemann Roch Problem".
- (39) Colloquium Lecture: SPIC Science Foundation, Madras, India, June 1994, "Symbolic Algebras of Monomial Curves".
- (40) A Short Course on "Linear Systems and Riemann-Roch" SPIC Science Foundation, Madras, India, June-July 1994.
- (41) Colloquium Talk: Ramanujan Institute for Advanced Study in Pure Mathematics, Madras, India, July 1994, "An intrinsic criterion for isomorphism of singularities".
- (42) Colloquium Talk: Indian Institute of Technology, Madras, July 1994, "Purity of the branch locus and Lefschetz Theorems".
- (43) Colloquium Talk: Institute of Mathematical Sciences, Madras, July 1994, "The Riemann Roch Problem".

- (44) Commutative Algebra: A satellite conference to The International congress of Mathematicians; Vechta, Germany, August 12-19, 1994, "Purity of the branch locus and Lefschetz Theorems".
- (45) Colloquium Talk: University of Missouri -St.Louis (UMSL), September 13, 1994, "Purity of the branch locus and Lefschetz Theorems".
- (46) Special Session on Algebraic Geometry, AMS Meeting, Norman, Oklahoma, October 1994, "Symbolic Algebras of Monomial curves".
- (47) Special Session on Rees Algebras and Related Topics, AMS Meeting, San Francisco, CA, Jan 1995, "Symbolic Algebras of Monomial curves".
- (48) Special Session on Commutative Algebra, AMS Meeting, Orlando, FL, March 1995, "Local Factorization of Birational morphisms".
- (49) Computational Aspects of Commutative Algebra and Algebraic Geometry, Oberwolfach, Germany, May 21 - May 27, 1995 (Hour Talk), "Local Factorization of Birational morphisms".
- (50) Special Session on Homological Aspects of Commutative Ring Theory, AMS meeting, Kent, Ohio, Nov. 1995, "Local Factorization of Birational morphisms".
- (51) A Short Course on Complete Ideals, Universität Essen (Germany), June 1995.
- (52) Über Seminar, Universität Essen (Germany), June, 1995, "Symbolic Algebras of Monomial Curves".
- (53) Seminar Talk, Universität Bochum (Germany), June 1995, "The Riemann Roch Problem".
- (54) Colloquium Talk: Institute of Mathematical Sciences, Madras, July 1995, "Symbolic Algebras of Monomial Curves".
- (55) Colloquium Talk: Purdue University, Nov. 28, 1995, "Local Factorization of birational maps".
- (56) Algebraic Geometry Seminars, Purdue University, 3 talks, Nov. 28 - 29, 1995, "Local Factorization of birational maps".
- (57) Special Session on Commutative Algebra and Algebraic Geometry, AMS meeting, Orlando, FL, Jan 1996, "Local Factorization of birational morphisms".
- (58) Kommutative Algebra and Algebraische Geometrie, Oberwolfach, Germany, May 5 - 11, 1996, "Local factorization of birational maps" (1 hour talk).
- (59) Seminar Talk, Universität Essen (Germany), May 1996, "Nagata's conjecture".
- (60) Algebraic Geometry Seminar, Washington University, July 1996 (4 hours), "Local factorization of birational maps".
- (61) Special Session on Commutative Algebra, AMS meeting, Seattle, Washington, August 1996, "Local factorization of birational maps".
- (62) Route 81 Conference, Syracuse, New York, Oct 26-27, 1996, Cohen Macaulay coordinate rings of blowup schemes".
- (63) Missouri Algebraic Geometry Conference, Columbia, April 15, 1997, "Local factorization of n-dimensional birational maps".

- (64) *Algebre Commutative et Geometrie Algebrique*, CIRM, Marseille - Luminy, May 5-9 1997, "Local factorization of n-dimensional birational maps".
- (65) Colloquium Talk, Universität Regensburg (Germany), July 11, 1997, "Monomialization and factorization of generically finite morphisms".
- (66) Special Session on Commutative Algebra, AMS meeting, Montreal, Canada, Sept 26-27 1997, "Monomialization and factorization of generically finite morphisms".
- (67) Colloquium talk, University of Versailles (France), December 11, 1997, "The Riemann-Roch problem".
- (68) Colloquium talk, University of Versailles (France), December 18, 1997, "Factorization of birational morphisms".
- (69) Special Session on Commutative Algebra, AMS meeting, January, 1998, "Local factorization and monomialization of Morphisms".
- (70) Special Session on Commutative Algebra, AMS meeting, Louisville, March 21, 1998, "Local factorization and monomialization of Morphisms".
- (71) University of Nebraska Centennial Celebration, May 16, 1998, "Factorization and monomialization of morphisms".
- (72) Conference on Homological Methods, Genoa, Italy, June 9, 1998, "Simultaneous resolution of singularities".
- (73) Colloquium Talk, Tata Institute of Fundamental Research, Bombay, India, June 23, 1998, "Local factorization and monomialization of morphisms".
- (74) Colloquium Talk, SPIC Science Foundation, Madras, India, July 13, 1998, "Local factorization and monomialization of morphisms".
- (75) Colloquium Talk, Indian Institute of Technology, Bombay, India, July 20, 1998 "Cohen-Macaulay coordinate rings of blowup schemes".
- (76) Special Session on Commutative Algebra, AMS meeting, Chicago, September 12-13, 1998, "Simultaneous resolution of singularities".
- (77) Algebraic Geometry Seminar, Johns Hopkins University, September 29 and 30, 1998, "Local factorization and monomialization of morphisms".
- (78) Colloquium Talk, Michigan State University, November 12, 1998, "Local factorization and monomialization of morphisms".
- (79) Special Session in Singularities in Algebraic and Analytic Geometry, AMS meeting, San Antonio, January 13 - 15, 1999, "Monomialization and Factorization of Mappings".
- (80) Special Session in Commutative Algebra and Algebraic Geometry, AMS meeting, San Antonio, January 15 - 16, 1999, "Asymptotic Behaviour of Regularity".
- (81) Special Session in Commutative Algebra, AMS meeting, Urbana, Illinois, March 18-21, 1999, "Local factorization of birational mappings".
- (82) Colloquium talk, Univ. Kansas, Spring 1999, "Factorization and monomialization of morphisms".

- (83) Conference on Commutative Algebra and Algebraic Geometry, Univ. Messina, Sicily, Italy, June 16 - 19, 1999, "Monomialization of Morphisms" (1 hour plenary talk).
- (84) Seminar talk, Univ. Reggio Calabria, June 20, 1999, "Asymptotic Regularity".
- (85) International Conference on Valuation Theory, Saskatoon, Canada, July 24- August 4, 1999, "Local monomialization of morphisms" (1 hour plenary talk).
- (86) Kommutative Algebra and Algebraische Geometrie, Oberwolfach, Germany, August 8 - 14, 1999, "Local monomialization of morphisms" (1 hour talk).
- (87) Special Session in Commutative Algebra, AMS meeting, Salt Lake City, Sept. 25 - 26, 1999, "Monomialization of Projective Morphisms".
- (88) Course of 15 90 minute talks on resolution of singularities and mappings, Chennai Mathematical Institute, Madras, India, Oct. 18 - Dec. 20, 1999.
- (89) Algebraic Geometry Seminar, University of Tokyo, Japan, Nov. 22, 1999, "Monomialization of morphisms".
- (90) Conference on Commutative Algebra, Tokyo, Japan, Nov. 23-26, 1999, 2 hour long talks. "Monomialization of morphisms" and "Asymptotic regularity".
- (91) Colloquium talk, Indian Institute of Science, Bangalore, India, Dec. 7, 1999, "Asymptotic regularity and Seshadri constants".
- (92) Colloquium talk, Mehta Research Institute of Mathematics and Mathematical Physics, Allahabad, India, Dec. 14, 1999, "Monomialization of Morphisms".
- (93) Colloquium talk, Institute of Mathematical Sciences, Madras, India, Dec. 20, 1999, "Asymptotic regularity and Seshadri constants".
- (94) Workshop on Invariant Theory, University of Pune, Pune, India, Dec 26-27, 1999, Course of 3 Lectures on "An Introduction to Resolution of Singularities".
- (95) Algebra Seminar, Northeastern University, February 7, 2000, "Asymptotic Regularity and Seshadri Constants".
- (96) Algebraic Geometry Seminar, Harvard University, February 22, 2000, "Monomialization of Morphisms".
- (97) Number Theory Seminar, Boston University, March 13, 2000, "Algebraic Fundamental Groups of Curve Singularities".
- (98) AMS Meeting, Special Session in Commutative Algebra and Algebraic Geometry, Lowell Massachusetts, March 30, 2000, "Asymptotic regularity and Seshadri constants".
- (99) Conference at University of Nebraska, May 29, 2000, "Monomialization of Morphisms".
- (100) Algebre Commutative et Geometrie Algebrique, CIRM, Marseille - Luminy, June 9, 2000, "Monomialization of Morphisms".
- (101) University of Valladolid, Spain, July 4 and July 11, 2000, 2 talks on "Monomialization of Morphisms".
- (102) University of Valladolid, Spain, July 17, 2000, "Asymptotic Regularity".

- (103) Conference in honor of Abhyankar's 70th Birthday, Purdue University, July 22, 2000, "Monomialization of Morphisms".
- (104) Algebra Conference at University of Kansas, September 2, 2000, "Monomialization of Morphisms".
- (105) AMS Meeting, Special Session in Commutative Algebra and Algebraic Geometry, Toronto, September 24, 2000, "Monomialization of Morphisms".
- (106) Algebraic Geometry Seminar, University of Toronto, September 25, 2000, "Monomialization of Morphisms".
- (107) CMS Meeting, Symposia in Algebraic Geometry, Vancouver, December 10, 2000, "Monomialization of morphisms".
- (108) AMS Meeting, Special Session in Algebraic Geometry, Lawrence, Kansas, March 30, 2001, "Vanishing of Differentials along Ideals".
- (109) AMS Meeting, Invited Address, Lawrence, Kansas, March 31, 2001, "Monomialization of Morphisms".
- (110) Seminaire sur les Singularites, University of Paris VII, June 7, "Ramification of Valuations".
- (111) Commutative Ring Theory and Applications, June 10, 2001, Fez, Morocco, "Ramification Theory of Valuations".
- (112) Conference on Singularities of Algebraic Varieties and Desingularization, University of Versailles, France June 13, 2001, "Ramification of Valuations".
- (113) Algebra Seminar, University of Messina, Sicily, "Asymptotic Regularity I" (June 19) and "Asymptotic Regularity II" (June 21).
- (114) Algebra Seminar, University of Messina, Sicily, "Ramification of Valuations I" (June 26) and "Ramification of Valuations II" (June 28).
- (115) Commutative Algebra, Interactions with Algebraic Geometry, Institut Fourier, Grenoble, July 14, 2001, "Generically finite morphisms and Ramification of Valuations".
- (116) AMS-SMF Meeting, Lyon, France, Special Session on Commutative Algebra, July 17, 2001, "Hilbert Functions of Ideal Sheaves".
- (117) Colloquium Talk, University of Kansas, Lawrence, Nov. 1, 2001, "Finite mappings and ramification of valuations".
- (118) Colloquium Talk, University of Kentucky, Lexington, Nov. 20, 2001, "Resolution of mappings".
- (119) Colloquium Talk, Washington University, St. Louis, Nov. 27, 2001, "Resolution of mappings".
- (120) International Conference on Algebra and Geometry, University of Hyderabad, Hyderabad, India, December 7 - 12, 2001, "Simultaneous Resolution".
- (121) Mathematical Sciences Institute, Madras, India, December 17, 2001, "A Counterexample to global simultaneous resolution".
- (122) AMS meeting, Ann -Arbor, Michigan, Special Session in Commutative Algebra, March 1- 3, 2002, "Ramification of Valuations".
- (123) Commutative Algebra Days, Nebraska, March 16, "Ramification of Valuations".
- (124) Colloquiumfest, University of Saskatchewan, Saskatoon, Canada, March 24, 2002, "Ramification of Valuations".

- (125) Conference at University of Tennessee, April 25 - 27, 2002, "Simultaneous Resolution of Singularities".
- (126) Conference on "Current Trends in Commutative Algebra", Leivico Italy, June 17 - June 21, 2002, "Ramification of Valuations".
- (127) Talk in Oberseminar, University of Essen, Germany, June 25, 2002, "Poincaré Series of Resolutions of Surface Singularities".
- (128) Nato/Otan Advanced Research Workshop on "Commutative Algebra, Singularities and Computer Algebra", Sinaia Romania, September 19, 2002, "Ramification of Valuations".
- (129) MSRI Workshop on "Commutative Algebra: Local and Birational Theory", MSRI, Berkeley, California, December 2, 2002, "Ramification and Resolution in Transcendental Extensions", video and notes from lecture online at www.msri.org/publications/ln/msri/2002/birational/cutkosky/1/index.html.