

CURRICULUM VITAE

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DEGREES:

- B.S. (Mathematics) 1978, The University of Chicago
- M.S. (Physics) 1978, The University of Chicago
- Ph.D. (Physics) 1981, The University of Chicago

EXPERIENCE:

- University of Chicago, Experimental High Energy Physics
Research Assistant, 1976-1978
- University of Chicago, Cosmology and Elementary Particle Physics
Research Fellow, 1978-1981
- Harvard-Smithsonian Center for Astrophysics
Postdoctoral Fellow in Theoretical Astrophysics, 1981-1982
- Harvard University
Postdoctoral Fellow in Physics, 1981-1982
- CERN
Scientific Associate (paid), 1982-1983
- Fermi National Accelerator Laboratory
Postdoctoral Research Associate, 1983-1985

- Department of Physics, University of Minnesota
Assistant Professor, 1985-1988
- Department of Physics, University of Minnesota
Associate Professor, 1988-1990
- Department of Physics, University of Minnesota
Professor, 1990-1998
- Department of Physics, University of Minnesota
Distinguished McKnight University Professor, 1998-
- Theoretical Physics Institute, University of Minnesota
Distinguished McKnight University Professor, 1998-
- Theoretical Physics Institute, University of Minnesota
Director, 1999-2005
- CERN
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HONORS:

- Fanni and John Hertz Foundation Fellowship, 1979-1981
- Harvard-Smithsonian Center for Astrophysics Fellowship, 1982-82
- NATO-NSF Postdoctoral Fellowship, 1982-1983
- Presidential Young Investigator Award, 1987-1994
- George Taylor Research Award, 1988
- Distinguished McKnight University Professor of Physics, 1998
- Fellow of the American Physical Society. 2003

MEMBERSHIPS:

- American Physical Society, 1978-1983, 2001- present
- Particle Data Group, 1987-present

PUBLICATIONS

1. Search for Quarks Produced with Large Transverse Momentum in 400-GeV Proton-Nucleus Collisions, by D. Antresyan, G. Cocconi, J. W. Cronin, H. J. Frisch, K. Olive, M. J. Shochet, L. Klubber, J. Mueller, P. A. Piroue, and R. L. Sumner, *Phys. Rev. Lett.* 39:513-515, 1977.
2. Cosmological Constraints on Unification Models, by K. A. Olive, D. N. Schramm, and Gary Steigman, in *Proceedings of the Seminar on Proton Stability*, D. Cline, ed., (Madison, 1978).
3. Cosmological Constraints on Superweak Particles, by G. Steigman, K. A. Olive, and D. N. Schramm, *Phys. Rev. Lett.* 43:239-242, 1979.
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5. The Condensation of Quarks and Gluons to Hadrons in the Very Early Universe, by K. A. Olive, in *Proceedings of Neutrino '79*, A. Haatuft and C. Jarlskog, eds., (Bergen, 1979) Volume 2:421-428.
6. A Quark Signature in the Nuclear Fireball Model of Heavy Ion Collisions, by K. A. Olive, *Phys. Lett.* 89B:299-302, 1980, (E, 91B:487, 1980).
7. Astrophysics Perspectives on High Energy Nucleus-Nucleus Collisions, by D. N. Schramm, M. Crawford, and K. A. Olive, *Proceedings of the First Workshop on Ultra-Relativistic Nuclear Collisions*, (LBL, Berkeley, 1980) 8757:241-260.
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9. Evolution of Cosmological Baryon Asymmetries. I. Role of Gauge Bosons, by J. N. Fry, K. A. Olive, and M. S. Turner, *Phys. Rev. D* 22:2953-2976, 1980.
10. Evolution of Cosmological Baryon Asymmetries. II. Role of Higgs Bosons, by J. N. Fry, K. A. Olive, and M. S. Turner, *Phys. Rev. D* 22:2977-2988, 1980.
11. Antiproton Production in the Nuclear Fireball Model of Relativistic Heavy Ion Collisions, by K. A. Olive, *Phys. Lett.* 95B:355-357, 1980.
12. Cosmological Limits on Neutrino Masses, by K. A. Olive, in *Proceedings of the 1980 DUMAND Symposium*, V. J. Stenger, ed., (1981) Vol. 2:77-91.
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14. Hierarchy of Cosmological Baryon Generation, by J. N. Fry, K. A. Olive, and M. S. Turner, *Phys. Rev. Lett.* 45:2074-2077, 1980.
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15. The Thermodynamics of the Quark-Hadron Phase Transition in the Early Universe, by K. A. Olive, *Nucl. Phys. B* [FS3]:483-503, 1981.
16. Comment on the Consistency of the Standard Model of Primordial Nucleosynthesis, by K. A. Olive and M. S. Turner, *Phys. Rev. Lett.* 46:516, 1981.
17. Big Bang Nucleosynthesis as a Probe of Cosmology and Particle Physics, by K. A. Olive, D. N. Schramm, G. Steigman, M. S. Turner and J. Yang, *Astrophys. J.* 246:557-568, 1981.
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19. Cosmological Bounds on the Masses of Stable, Right-Handed Neutrinos, by K. A. Olive and M. S. Turner, *Phys. Rev. D* 25:213-216, 1982.
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21. The Quark-Hadron Transition in Systems with Net Baryon Number, by K. A. Olive, *Nucl. Phys. B* 198:461-473, 1982.
22. The Quark-Hadron Transition in Heavy Ion Collisions and the Equation of State of Dense Nuclear Matter, by K. A. Olive. *Proceedings of the International Workshop on the Gross Properties of Nuclei and Nuclear Excitations*, X. H. Feldmeier, editor, (Institut for Kernphysik Technische Hochschule Darmstadt, Hirschegg, 1982) pp. 123-125.
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24. Further Aspects of Supercosmology, by D. V. Nanopoulos, K. A. Olive and K. Tamvakis, *Phys. Lett.* 115B:15-20, 1982.
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73. Superstring Dark Matter, by B. Campbell, J. Ellis, K. Engvist, J. Hagelin, D. V. Nanopoulos, and K. A. Olive, *Phys. Lett.* 173B:270-279, 1986.
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400. Neutrino Signatures from the First Stars, by Frédéric Daigne, Keith A. Olive, Pearl Sandick, and Elisabeth Vangioni, *Phys. Rev. D* 72:103007-1-11, 2005.
401. On the Higgs Mass in the CMSSM, by John Ellis, Dimitri Nanopoulos, Keith A. Olive, and Yudi Santoso, *Phys. Lett. B* 633:583-590, 2006.
402. Supersymmetry Parameter Analysis: SPA Convention and Project, by J.A. Aguilar-Saavedra et al. *Eur. Phys. J. C* 46:43-60, 2006.
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404. Phenomenological Indications of the Scale of Supersymmetry, by John Ellis, Sven Heinemeyer, Keith A. Olive, and Georg Weiglein *JHEP* 05 005, 2006.
405. On $B_s \rightarrow \mu^+ \mu^-$ and Cold Dark Matter Scattering in the MSSM with Non-Universal Higgs Masses, by John Ellis, Keith A. Olive, Yudi Santoso, and Vassilis Spanos *JHEP* 05 063, 2006.
406. Gravitational Waves from the First Stars, by Pearl Sandick, Keith A. Olive, Frédéric Daigne, and Elisabeth Vangioni, *Phys. Rev. D* 73:104024-1-8, 2006.
407. The Relic Neutrino Background from the First Stars, by Keith A. Olive and Pearl Sandick, in the Proceedings of the IIIrd International Workshop on: NO-VE "Neutrino Oscillations in Venice", Venice Italy, February 2006, ed. M. Baldo Ceolin, pp.337-355.
408. Indications of the CMSSM Mass Scale from Precision Electroweak Data, by John Ellis, Sven Heinemeyer, Keith A. Olive, and Georg Weiglein, to be published in the Proceedings of the 2005 International Linear Collider and Detector Workshop, Snowmass, Colorado, August 2005.
409. Reconstructing the dark energy equation of state with varying couplings, by P.P. Avelino, C.J.A.P. Martins, N.J. Nunes, and K.A. Olive, *Phys. Rev. D* 74:083508-1-7, 2006.
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411. What if supersymmetry breaking appears below the GUT scale?, by J. Ellis, K.A. Olive, and P. Sandick, *Phys. Lett. B* 642:389-399, 2006.

412. The Fate of SUSY Flat Directions and their Role in Reheating, by K.A.Olive and M. Peloso, Phys. Rev. D74:103514-1-15, 2006.
413. Bound-State Effects on Light-Element Abundances in Gravitino Dark Matter Scenarios, by Richard H. Cyburt, John Ellis, Brian D. Fields, Keith A. Olive, and Vassilis Spanos, JCAP 11:014-1-18, 2006.
414. Dark Matter and Dark Matter Candidates, by Keith A. Olive, JASR (in press) 2007.
415. Review of Particle Physics, by Y.M. Yao et al., J. Phys. G, 33: 1 - 1231, 2006.
416. Searching for Dark Matter in Unification Models: A Hint from Indirect Sensitivites towards Future Signals in Direct Detection and B-decays, by K.A. Olive, in the proceedings of the International Workshop The Dark Side Side of the Universe - DSU2006, Univerisdad Autonoma de Madrid, June 2006 eds. C. Munoz and G. Yepes, AIP conference proceedings 878 (AIP, New York, 2006) pp. 34-45.
417. Coupled Variations of Fundamental Couplings and Primordial Nucleosynthesis, by Alain, Coc, Nelson Nunes, Keith A. Olive, J.-P. Uzan, and Elisabeth Vangioni, Phys. Rev. D76:023511-1-12, 2007.
418. The Decay of the Inflaton in No-scale Supergravity, by M. Endo, K. Kadota, K. Olive, F. Takahashi, and T. Yanagida JCAP 0702:018, 2007.
419. On the Feasibility of a Stop NLSP in Gravitino Dark Matter Scenarios, by J. L. Diaz-Cruz, John Ellis, Keith A. Olive, and Yudi Santoso, JHEP 0705:003, 2007.
420. Nuclear Origins: Nuclear Chemistry in the Early Universe, to be published in "Chemical Evolution I: Chemical Change across Space and Time" (American Chemical Society, 2007).
421. Phenomenology of GUT-less Supersymmetry Breaking, J. Ellis, K.A. Olive, and P. Sandick, JHEP 0706: 079, 2007.
422. The Supersymmetric Parameter Space in Light of B -physics Observables and Electroweak Precision Data, by J. Ellis, S. Heinemeyer, K.A. Olive, A.M. Weber, and G. Weiglein JHEP, 0708:083, 2007.
423. Light Heavy MSSM Higgs Bosons at Large $\tan\beta$, by J. Ellis, S. Heinemeyer, K.A. Olive, and G. Weiglein Phys. Lett. B653:292-299, 2007.
424. Cosmic Ray production of Beryllium and Boron at high redshift, by Emmanuel Rollinde, David Maurin, Elisabeth Vangioni-Flam, Keith A. Olive, and Susumu Inoue Ap. J. (in press) 2007.
425. WMAP-Compliant Benchmark Surfaces for MSSM Higgs Bosons, by J. Ellis, T. Hahn, S. Heinemeyer, K.A. Olive, and G. Weiglein JHEP 0710:092, 2007.
426. Colliders and Cosmolgy, by K. A. Olive, to be published in the Proceedings of SUSY07, Karlsruhe Germany, July 2007.

427. Environmental Dependence of Masses and Coupling Constants, by Keith A. Olive and Maxim Pospelov (submitted) 2007.

BOOKS

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2. *Inner Space/Outer Space*, E. W. Kolb, M. S. Turner, D. Lindley, K. A. Olive and D. Seckel, eds., (Univ. of Chicago Press, Chicago, 1986).
3. *Neutrino Masses and Neutrino Astrophysics*, V. Barger, F. Halzen, M. Marshak and K. A. Olive, eds., (World Scientific Publishing Co., Singapore, 1987).
4. *Supernova SN 1987a*, K. A. Olive and T. Walsh, eds., (Independence Press, Minneapolis, 1987).
5. *LiBeB, Cosmic Rays, and Related X- and Gamma Rays*, R. Ramaty, E. Vangioni-Flam, M. Casse, and K.A. Olive, eds. Astronomical Society of the Pacific Conference Series v. 171 (San Francisco, 1999).
6. *Particle Physics Made Elementary*, by R.M. Barnett, H. Muhry, H.R. Quinn, G.J. Aubrecht, R.N. Cahn, J. Dorfan, M. Dresden, G. Goldhaber, J.D. Jackson, and K.A. Olive.
7. *SUSY 30*, K.A. Olive, S. Rudaz, and M. Shifman, eds., Nucl. Phys. B Proceedings Supplements 101, (Elsevier, Amsterdam, 2001).
8. *Continuous Advances in QCD 2002: Arkadyfest*, K.A. Olive, M.A. Shifman, and M.A. Voloshin, eds. (World Scientific, Singapore, 2002).
9. *The Cosmic Microwave Background Radiation and its Polarization*, S. Hanany and K.A. Olive, eds, New Astronomy Reviews 47, No. 11-12, (Elsevier, Amsterdam, 2004).

ABSTRACTS

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2. Cosmological Constraints on Unified Theories, by G. Steigman, D. N. Schramm, and K. A. Olive, Bulletin of the American Astronomical Society 10:670, 1979.
3. Entropy Production Via the Viscosity of Arbitrary Interaction Strength Neutrinos, by K. A. Olive, Bulletin of the American Astronomical Society 11:608, 1979.
4. A Quark Signature in Heavy Ion Collisions, by K. A. Olive, Bulletin of the American Physical Society 25:47, 1980.
5. An Upper Limit on the Mass of a Heavy Stable Neutrino, by P. Hut and K. A. Olive, Bulletin of the American Physical Society 25:581, 1980.

6. Evolution of Cosmological Baryon Asymmetries, by M. S. Turner, J. N. Fry, and K. A. Olive, *Bulletin of the American Physical Society* 25:581, 1980.
7. OB Associations and the Early Solar System, by K. A. Olive and D. N. Schramm, *Meteoritics*, 1981.
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9. Primordial Nucleosynthesis: From D to B, by K. A. Olive, *Bulletin of the American Physical Society* 37:895, 1992.
10. The Deuterium Abundance and Nucleocosmochronology, by S.T. Scully and K.A. Olive, *Bulletin of the American Astronomical Society* 26:966, 1994.
11. On the Origin of the LiBeB Elements, by K.A. Olive, *Bulletin of the American Physical Society* 39:1388-1389, 1994.
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14. Time Varying Fundamental Constants, by K.A. Olive, *Bulletin of the American Physical Society*, 48 no.2:80, 2003.
15. A Chemical Evolution Explanation of the Apparent Time Variation of the Fine Structure Constant, by T.P. Ashenfelter, G.J. Mathews, and K.A. Olive, *Bulletin of the American Astronomical Society*, 203:8203, 2003.

TALKS

1. Cosmological Constraints on Unification Models, Seminar on Proton Stability, University of Wisconsin, Madison, Wisconsin, December 1978.
2. Constraints on Types of Elementary Particles from Cosmology, meeting of the American Physical Society, Chicago, Illinois, March 1979.
3. Entropy Production Via the Viscosity of Arbitrary Interaction Strength Neutrinos, meeting of the American Astronomical Society, Wellesley, Massachusetts, June 1979.
4. The Condensation of Quarks and Gluons to Hadrons in the Very Early Universe, Neutrino '79, Bergen, Norway, June 1979.
5. Quark Signature in Heavy Ion Collisions, meeting of the American Physical Society, Chicago, Illinois, January 1980.
6. An Upper Limit on the Mass of a Heavy Stable Neutrino, meeting of the American Physical Society, Chicago, Illinois, January 1980.
7. Quark-Hadron Phase Transition in the Early Universe and in Heavy Ion Collisions, Enrico Fermi Institute Seminar, University of Chicago, Chicago, Illinois, March 1980.
8. A Quark Signature and Antiproton Production in Relativistic Heavy Ion Collisions, Nuclear Physics Seminar, Argonne National Laboratory, Argonne, Illinois, March 1980.
9. Limits on Neutrino Masses, 1980 International DUMAND Symposium, University of Hawaii, Honolulu, Hawaii, July 1980.
10. The Union of Cosmology and Elementary Particle Physics: A Legacy of the Cosmic Background Radiation, Astrophysics Seminar, Bell Laboratories, Murray Hill, New Jersey, October 1980.
11. The Thermodynamics of the Quark-Hadron Phase Transition, High Energy Physics Seminar, Argonne National Laboratory, Argonne, Illinois, April 1981.
12. The Quark-Hadron Transition, Workshop on the Interaction of Particle Physics and Astrophysics, Institute for Theoretical Physics, University of California, Santa Barbara, California, May 1981.
13. Big Bang Baryosynthesis, Department of Physics Colloquium, University of Illinois, Chicago Circle, Chicago, Illinois, June 1981.
14. The Quark-Hadron Transition in Heavy Ion Collisions and the Equation of State of Dense Nuclear Matter, International Workshop on the Gross Properties of Nuclei and Nuclear Excitations, Institut für Kernphysik Technische Hochschule Darmstadt, Hirschegg, Austria, January 1982.

15. The Stability of Quark Matter, Theoretical Seminar, CERN, Geneva, March 1982.
16. Cosmology, Astrophysics and Heavy Ion Collisions, Workshop on Quark Matter, Formation and Heavy Ion Collisions, Bielefeld, West Germany, May 1982.
17. The Quark-Hadron Transition in Heavy Ion Collisions and the Equation of State of Dense Nuclear Matter, Theoretical Seminar, Institut für Kernphysik, Technische Hochschule, Darmstadt, West Germany, May 1982.
18. Astrophysical Implications of Grand Unified Monopoles, Astrophysics Seminar, Max Planck Institut für Astrophysik, Munich, West Germany, October 1982.
19. Experimental and Astrophysical Implications of Grand Unified Monopoles, High Energy Physics Seminar, University of Michigan, Ann Arbor, October 1982.
20. Big Bang Nucleosynthesis, Stellar Evolution and the Number of Neutrino Flavours, Joint Physics and Astronomy Seminar, University of Michigan, Ann Arbor, October 1982.
21. Primordial SuperInflation and Cosmology, Department of Physics Colloquium, University of Michigan, Ann Arbor, October 1982.
22. Neutrinos, the He Abundance and Stellar Evolution, ESO Workshop on Primordial Helium, European Southern Observatory, Munich, West Germany, February 1983.
23. Primordial Supersymmetric Inflation, Theoretical Physics Seminar, University of Geneva, Switzerland, February 1983.
24. Primordial Supersymmetric Inflation, University of Edinburgh, Scotland, February 1983.
25. Primordial Supersymmetric Inflation, University of Glasgow, Scotland, February 1983.
26. Primordial Supersymmetric Inflation, University of Durham, England, February 1983.
27. Primordial Supersymmetric Inflation, University of Cambridge, England, February 1983.
28. Primordial SuperInflation, Third Primordial Astrophysics Meeting, La Plagne, France, March 1983.
29. Primordial Inflation and Supercosmology, Theoretical Physics Seminar, ICTP, Trieste, Italy, June 1983.
30. Cosmology and $N=1$ Supergravity Physics. Summer Institute, University of Washington, Seattle, Washington, August 1983.
31. Primordial Inflation and the Monopole Problem, Monopole '83 Workshop, University of Michigan, Ann Arbor, October 1983

32. N=1 Supergravity and Cosmology, High Energy Physics Seminar, University of Chicago, November 1983.
33. Cosmology and Supergravity, Department of Astronomy Seminar, University of California, Berkeley, December 1983.
34. Cosmology and Supergravity, High Energy Physics Seminar, University of Minnesota, Minneapolis, December 1983.
35. Hadronic Thermodynamics: Is There a Limiting Temperature? XIIth International Workshop on Gross Properties of Nuclei and Nuclear Excitations, Institute fur Kernphysik, Technische Hochschule Darmstadt, Hirschegg, Austria, January 1984.
36. Cosmology and Supergravity, High Energy Physics Seminar, Brookhaven National Laboratory, Brookhaven, NY, January 1984.
37. Cosmology and Supergravity, Physics and Astronomy Seminar, University of Indiana, Bloomington, IN, February 1984.
38. Gravitinos and Cosmology, Enrico Fermi Institute Seminar, University of Chicago, Chicago, IL, May 1984.
39. Primordial Inflation in N=1 Supergravity, High Energy Physics Seminar, Purdue University, West Lafayette, IN, October 1984.
40. Cosmology and Supergravity, High Energy Physics Seminar, University of Wisconsin, Madison, WI, November 1984.
41. Galaxy Formation With Decaying Cold Dark Matter, invited talk at the Third Rome meeting on Astrophysics, Rome, Italy, December 1984.
42. Primordial Supersymmetric Inflation, invited talk at the Third Rome meeting on Astrophysics, Rome, Italy, December 1984.
43. Cosmology and Particle Physics: A General Review, invited talk at the Twelfth Texas Symposium on Relativistic Astrophysics, Jerusalem, Israel, December 1984.
44. Inflation and Non-Minimal Supergravity, Department of Theoretical Physics, LAPP, Annecy, France, January 1985.
45. Cosmology and Supersymmetry, Physics Division Colloquium, LBL, Berkeley, CA, February 1985.
46. Local Photinos, Joint High Energy Physics and Astrophysics Seminar, University of Minnesota, March 1985.

47. Supersymmetric Inflation, Department of Physics Colloquium, Northwestern University, Evanston, IL, April 1985.
48. Dark Matter: Astrophysics and Particle Physics, invited talk at the Sixth Workshop on Grand Unification, Minneapolis, MN, April 1985.
49. Topics in Particle Physics and Cosmology, invited lectures at the 1985 Cargese Summer School on Particle Physics, Cargese, France, July 1985.
50. Effects of Dark Matter in the Sun and in White Dwarfs, High Energy Theory Seminar, University of Wisconsin, Madison, WI, January 1986.
51. Cosmological Constraints and Astrophysical Consequences of Cold Dark Matter, Department of Astronomy Colloquium, University of Illinois, Urbana, IL, January 1986.
52. Dark Matter as a Probe of the Early Universe, invited talk at the 1986 Lake Louis Winter Institute of Physics, Lake Louis, Alberta, Canada, February 1986.
53. Superstring Candidates for Dark Matter, invited talk at the Particle Physics and Cosmology Workshop, Quarks and Galaxies, Lawrence Berkeley Laboratory, Berkeley, CA, July 1986.
54. High Energy Neutrinos from the Sun and the Dark Matter of the Universe, High Energy theory seminar, CERN, Geneva, September 1986.
55. Particle Physics and Cosmology, invited lectures at the International School of Elementary Particle Physics, Duilovo-Split, Yugoslavia, September 1986.
56. What is the Dark Matter in the Universe, Physics Colloquium, University of Minnesota, Duluth, MN, December 1986.
57. The Standard Big Bang Model, invited lectures at the International School of Astroparticle Physics Erice-Sicily, Italy, January 1987.
58. Dark Matter Candidates High Energy Physics Seminar Carnegie-Mellon University, Pittsburg, PA, February 1987.
59. Particle Physics Aspects of Dark Matter, Telemark IV miniworkshop on Neutrino Masses and Neutrino Astrophysics, Ashland, WI, March 1987.
60. The Case Against Baryons in Halos, invited talk at the Workshop on Dark Matter in the Universe, Oxford, England, April 1987.
61. Indirect Signatures in Underground Experiments, invited talk at the Workshop on Dark Matter in the Universe, Oxford, England, April 1987.

62. Dark Matter in the Universe, Physics and Astronomy Seminar, Ohio State University, Columbus, April 1987.
63. Dark Matter in the Universe, Physics and Astronomy Seminar, University of Kansas, Lawrence, April 1987.
64. Encore Plus sur la Matiere Noire et la Physique des Particules, invited talk at meeting on Dark Matter in the Universe, LAPP, Annecy, France, July 1987.
65. On the Baryon Number of the Universe, Dept. of Physics, University of Cagliari, Italy, July 1987.
66. Strong Coupling Phenomena in the Early Universe, TPI Workshop on High Temperature QCD, and Relativistic Many-Body Theory, Minneapolis, MN, October 1987.
67. Searching for Dark Matter using Underground Detectors, High Energy Physics Seminar, University of Michigan, Ann Arbor, MI, January 1988.
68. On the Magnitude of Baryon Density Fluctuations in the Quark Hadron Phase Transition, XXIIIrd Rencontres de Moriond Workshop on Astrophysics, Les Arcs, France, March 1988.
69. Searching for Dark Matter Using Underground Detectors, XXIIIrd Rencontres de Moriond Workshop on Astrophysics, Les Arcs, France, March 1988.
70. Cosmological Constraints and Superstring Phenomenology, XXIIIrd Rencontres de Moriond Workshop on Electro-Weak Interactions and Unified Theories, Les Arcs, France, March 1988.
71. Particle Physics and Cosmology, three invited lectures at the XVIIIth Cracow School for Theoretical Physics, Zakopane, Poland, June 1988.
72. Dark Matter, Theoretical Physics Seminar, University of Lodz, Lodz, Poland, June 1988.
73. String Corrections to the Gravitational Equations of Motion and Inflation, invited talk at the Workshop on Thermal Field Theories and their Applications, Case Western Reserve University, Cleveland, OH, October 1988.
74. Cosmology, Astrophysics and Particle Physics: The Standard Model and Beyond, invited talk at the Beyond the Standard Model Workshop, Iowa State University, Ames, IA November 1988.
75. Nucleosynthesis, Baryosynthesis and Inflation in the Early Universe, two invited lectures at the Lake Louise Winter Institute for Physics, Lake Louise, Alberta, Canada, February 1989.
76. Cosmology and the T.O.E., invited talk at the Science Museum, St. Paul, MN, May 1989.
77. Primordial Nucleosynthesis, invited lectures at the International School of Astro-Particle Physics, Erice-Sicily, Italy, May 1989.

78. Dark Matter: Theoretical Information, invited lectures at the International School of Astro-Particle Physics, Erice-Sicily, Italy, May 1989.
79. The Origin of the Universe, Seminar Series on Creation, The MacLaurin Institute, Minneapolis, MN, February 1990.
80. New Results from Big Bang Nucleosynthesis, XVth Rencontres de Moriond Workshop on Particle Astrophysics, Les Arcs, France, March 1990.
81. Dark Matter Candidates in the Supersymmetric Standard Model, XVth Rencontres de Moriond Workshop on Particle Astrophysics, Les Arcs, France, March 1990.
82. The Quark-Hadron Transition in Cosmology and Astrophysics, invited talk at the Spring APS meeting, Washington D.C., April 1990.
83. The Big Bang Theory of the Evolution of the Universe, First Unitarian Church, Minneapolis, MN, April 1990.
84. Astrophysical Consequences of the LEP Measurements, invited talk at the Neutrino-90 meeting, CERN, Geneva, Switzerland, June 1990.
85. The Standard Big Bang Model and Nucleosynthesis, invited lectures at the 1990 ICTP Summer School in High Energy Physics and Cosmology, Trieste, Italy, July 1990.
86. Dark Matter, invited lecture at the 1990 ICTP Summer School in High Energy Physics and Cosmology, Trieste, Italy, July 1990.
87. The Quark Hadron Transition in Cosmology and Astrophysics, invited talk at the 1990 ICTP Summer School in High Energy Physics and Cosmology, Trieste, Italy, July 1990
88. Supersymmetric Candidates for Dark Matter, theory seminar, Max Planck Institut, Munich, Germany, November 1990.
89. Recent Developments in Inflation, theory seminar, LAPP, Annecy, France, November 1990.
90. Cosmological and Astrophysical Aspects of the Quark-Hadron Phase Transition, theory seminar, CERN, Geneva, Switzerland, November 1990.
91. Topics in Big Bang Theory Cosmology, Mechanical Engineering Colloquium, University of Minnesota, Minneapolis, MN, February 1991.
92. Extended Inflation and String Theories, theory seminar, Texas A&M University, College Station, TX, April 1991.
93. Cosmological and Astrophysical Aspects of the Quark-Hadron Phase Transition, theory seminar, University of Texas, Austin, TX, April 1991.

94. An Overview of Astroparticle Physics, invited talk at the International Workshop on Electroweak Physics, Valencia, Spain, October 1991.
95. Dark matter: The Current Status, Dept. of Physics Colloquium, University of Minnesota, Minneapolis, MN, October 1991.
96. Aspects of the Quark-Hadron Transition, two invited talks at the International Workshop and Conference on Quark Matter and the Heavy Ion Collisions, Gomal University, D.I. Khan, Pakistan, January 1992.
97. Primordial Nucleosynthesis: From D to B, invited talk at the Spring A.P.S. meeting, Washington, D.C., April 1992.
98. Astro Particle Physics, invited talk at the Beyond the Standard Model III Conference, Carleton University, Ottawa, Canada, June 1992.
99. Primordial Nucleosynthesis: From D to B, colloquium Institute d' Astrophysique de Paris, Paris, France, July 1992.
100. SUSY from the Sky: Theory, invited talk at the workshop on Ten Years of SUSY Confronting Experiment, CERN, Geneva, September 1992.
101. Inhomogeneous Nucleosynthesis: Non-Standard Models, invited talk at the Proceedings of the 16th Texas Symposium on Relativistic Astrophysics and 3rd Symposium on Particles, Strings, and Cosmology, Berkeley CA, December 1992.
102. Big Bang Theory, invited lecture at the Minneapolis Branch meeting of the American Association of University Women, Minneapolis MN, February 1993.
103. Dark Matter, invited lectures at the Theoretical Advanced Studies Institute (TASI), University of Colorado, Boulder CO, June 1993.
104. Inflation, invited lectures at the Theoretical Advanced Studies Institute (TASI), University of Colorado, Boulder CO, June 1993.
105. Lepto-Baryogenesis, Invited talk at Taup-93, the 3rd International Workshop on Theory and Phenomenology in Astoparticle and Underground Physics, Laboratori del Gran Sasso, Assergi, Italy, September 1993.
106. Lepto-Baryogenesis, Joint theoretical physics seminar, Insitute for Theoretical Physics and the Department of Physics, University of California, Santa Barbara CA, February 1994.
107. Big Bang Baryogenesis, Invited Lectures at the 33rd International Winter School on Nuclear and Particle Physics, "Matter Under Extreme Conditions", Feb. 27 - March 5 1994, Schladming Austria.

108. On the Destruction of Primordial Deuterium, ESO/EIPC Workshop on The Light Element Abundances, Marciana Marina, Elba, Italy, May 23-28 1994.
109. Supersymmetric Solutions to Cosmological Problems: Baryogenesis and Dark Matter, invited talk at the Joint U.S.-Polish Workshop on Physics from Planck Scale to Electroweak Scale, Warsaw Poland, September 21-24 1994.
110. Light Element Nucleosynthesis: From D to B, High energy physics seminar, Lawrence Berkeley Lab., University of California, Berkeley CA, October 1994.
111. Supersymmetric Dark Matter, Center for Particle Astrophysics seminar, University of California, Berkeley CA, October 1994.
112. On the Origin of the LiBeB Elements, Invited talk at the 1994 Fall Meeting of the APS Division of Nuclear Physics, Williamsburg VA, October 1994.
113. Big Bang Nucleosynthesis, Invited talk at the the Beyond the Standard Model IV Conference, Lake Tahoe, CA, December 1994.
114. Light Element Synthesis from D to B, Physics Colloquim, Brookhaven National Laboratory, Brookhaven, NY, February 1995.
115. Towards an Understanding of Supersymmetric Dark Matter, Physics Colloquim, Northwestern University, Evanston, IL, April 1995.
116. Phases in the MSSM, Invited talk at SUSY 95, International Workshop on Supersymmetry and Unification of Fundamental Interactions, Ecole Polytechnique, Palaiseau, France, May 1995.
117. Matiere Noire et Supersymetrie, Seminaire Exceptionnel, Institut d'Astrophysique, Paris, France, May 1995.
118. Nucleosynthese, Informal Seminar, Saclay, Gif-sur-Yvette, France, May 1995.
119. Time Dependence of Fundamental Couplings and Big Bang Nucleosynthesis, Invited Talk at the Very Early Universe Workshop, Gaeta, Italy, August 1995.
120. Supersymmetric Dark Matter, Invited Talk at the Very Early Universe Workshop, Gaeta, Italy, August 1995.
121. Big Bang Nucleosynthesis and the Consistency between Theory and Observations of D, ^3He , ^4He , and ^7Li , Invited Talk at the IInd Recontres Du Vietnam, Ho Chi Minh City, Vietnam, October 1995.
122. General Introduction to the Dark Matter Problem: Why Do We Need Non-Baryonic Dark Matter?, Invited talk at the XXXIst Rencontres de Moriond, Les Arcs, France, January 1996.

123. Dark Matter and Structure Formation: Invited summary talk at the XXXIst Rencontres de Moriond, Les Arcs, France, January 1996.
124. Bino Dark Matter and CP Violating Phases, invited talk at the Second Joint U.S.-Polish Workshop on Physics from Planck Scale to Electroweak Scale, Warsaw Poland, March 28-30 1996.
125. Primordial Nucleosynthesis, Invited talk at the VIIIth Rencontres de Blois: Neutrinos, Dark Matter, and the Universe, Chateau de Blois, Blois, France, June 1996.
126. Big Bang Nucleosynthesis, a review, Invited talk at Neutrino '96, Helsinki, Finland, June 1996.
127. How Much D can the Disk destroy?, Invited seminar at the INT Workshop on Nucleosynthesis in the Big Bang, Stars, and Supernovae, University of Washington, Seattle, Washington, August, 1996.
128. Nucleosynthesis - A Review, Invited talk at the International Workshop on Aspects of Dark Matter in Astro- and Particle Physics, vberg, Germany, September 1996.
129. Big Bang Nucleosynthesis, set of 7 invited lectures, Mcalester University, St. Paul, MN, January 1997.
130. AstroParticle Physics, invited talk at the 1997 Winter Conference on Particle Physics, Aspen, CO, January 1997.
131. Nucleosynthesis and Dark Matter, set of 3 invited lectures at the Lake Louise Winter Institute for Physics, Lake Louise, Alberta, Canada, February 1997.
132. Big Bang Nucleosynthesis, Physics Colloquim, University of California, Davis CA, March 1997.
133. The current status of big bang nucleosynthesis, high energy physics and astrophysics seminar, University of Michigan, Ann Arbor MI, April 1997.
134. Constraints on Particle Physics Beyond the Standard Model from Big Bang Nucleosynthesis, invited talk at Beyond the Standard Model V, Balholm Norway, April 29 - May 4, 1997.
135. Supersymmetrie et la Mattiere Noire, Cosmology Seminar, Institut d'Astrophysique de Paris, June 1997.
136. Introduction to Big Bang Nucleosynthesis, invited talk at the International Workshop on the Synthesis of Light Nuclei in the Early Universe, ECT*, Trento, Italy, June 1997.
137. Chemical Evolution, invited talk at the International Workshop on the Synthesis of Light Nuclei in the Early Universe, ECT*, Trento, Italy, June 1997.
138. Big Bang Nucleosynthesis, Invited talk at Taup-97, the 5th International Workshop on Theory and Phenomenology in Astoparticle and Underground Physics, Laboratori del Gran Sasso, Assergi, Italy, September 1997.

139. The Current Status of BBN: Theory and Observations, Invited talk at the 3rd RESCUE International Symposium, Particle Cosmology, University of Tokyo, Tokyo, Japan, November 1997.
140. String and M-Theory Corrections to Gravity and Cosmology, Theory Seminiar, Yukawa Institute for Theoretical Physics, Kyoto, Japan, November 1997.
141. Recent LEP Constraints and the SStatus of SUSY Dark Matter, Astrophysics Theory Seminar, Fermilab, Batavia, IL, February 1998.
142. LEP Implications on the MSSM and Cosmological Dark Matter, invited talk at the XXXIIIrd Rencontres de Moriond, Les Arcs, France, March 1998.
143. Constraints on Cosmological Dark Matter from Recent Results at LEP, invited talk at the First European Meeting From Planck Scale to Electroweak Scale, Kasimierz, Poland, May 1998.
144. Big Bang Nucleosynthesis, Three invited lectures at the Advanced School on Cosmology and Particle Physics, Peniscola, Spain, June 1998.
145. Big Bang Nucleosynthesis, Four invited lectures at the Theoretical and Observational Cosmology Summer School , Cargese, Corsica, France, August 1998.
146. Supersymmetric Dark Matter, Physics Colloquium, Johns Hopkins University, October 1998.
147. Constraints on Particle Properties from Big Bang Nucleosynthesis, High Energy Physics Seminar, Johns Hopkins University, October 1998.
148. Big Bang Nucleosynthesis and the Density of Matter in the Universe, Physics Colloquium, University of North Dakota, November 1998.
149. LiBeB and Big Bang Nucleosynthesis, Invited Talk at the LiBeB, Cosmic Rays, and Gamma Rays Workshop, Insitut d'Astrophysique, Paris, France, December 1998.
150. Big Bang Nucleosynthesis, Invited Plenary Talk at the 19th Texas Symposium on Relativistic Astrophysics and Cosmology, Paris, France, December, 1998.
151. Particle Cosmology, Dark Matter, and Black Holes, set of 3 invited lectures, Mcalester University, St. Paul, MN, February 1999.
152. Synthesis of the Light Elements: D to B, Physics Colloquim, Department of Physics, University of Minnesota, Minneaoplis MN, February 1999.
153. Big Bang Nucleosynthesis, 4 lectures at the Topical Program on Astro-Cosmology, APCTP, Seoul, South Korea, April 1999.
154. String Inflation, Physics seminar, Hanyang University, Seoul, South Korea, April 1999.

155. Supersymmetric Dark Matter and Constraints from LEP, invited talk at the Annual Meeting of the Korean Physical Society, Konkuk University, Seoul, South Korea, April 1999.
156. Supersymmetric Dark Matter and Constraints from LEP, Astro-Particle Physics seminar, Case Western Reserve University, Cleveland OH, May 1999.
157. Cosmology II: From the Planck time to BBN, invited talk at the Inner-Space/Outer Space meeting in memory of David Schramm, Fermilab, IL, May 1999.
158. Big Bang and Cosmic-Ray Nucleosynthesis, invited talk at the 194th meeting of the American Astronomical Society, Chicago IL, May 1999.
159. Supersymmetry and Dark Matter, invited talk at SUSY '99, Fermilab, IL, June 1999.
160. Progress towards String Motivated Inflation, invited talk at the workshop on Current Issues in String Cosmology, IHES, Bures sur Yvette, France, June 1999.
161. Introduction to Supersymmetry, Astrophysical and Phenomenological Constraints, 6 invited lectures at the Les Houches 1999 Summer School Session LXXI: The Primordial Universe, Les Houches, France, July 1999.
162. Big Bang Nucleosynthesis, invited lecture at the Les Houches 1999 Summer School Session LXXI: The Primordial Universe, Les Houches, France, July 1999.
163. The Current Status of Big Bang Nucleosynthesis and Related Observations, invited talk at Cosmo99, International Workshop on Particle Physics and the Early Universe, ICTP, Trieste, Italy, September, 1999.
164. Synthesis of the Light Elements: D to B, Physics Colloquium, Department of Physics, University of California, Santa Barbara, CA, October 1999.
165. Evolution of ^4He and LiBeB, invited talk at the IAU Symposium 198, The Light Elements and their Evolution, Natal, Brasil, November 1999.
166. Status of Cosmology, invited talk at the 2000 Aspen Winter Conference: Vistas on XXIst Century Particle Physics, Aspen CO, January 2000.
167. Are Two Branes Better than One, invited talk at Argonne National Lab Theoretical Institute on SUSY and Higgs 2000, Argonne National Lab, Argonne IL, May 2000.
168. Supersymmetric Dark Matter, invited talk at the SUSY2K Conference, CERN, Geneva Switzerland, June 2000.
169. Big Bang Nucleosynthesis and Related Observations, invited talk at Dark 2000: Third International Conference on Dark Matter in Astro and Particle Physics, Heidelberg, Germany, July 2000.

170. Concluding Remarks, invited talk at Dark 2000: Third International Conference on Dark Matter in Astro and Particle Physics, Heidelberg, Germany, July 2000.
171. Supersymmetric Dark Matter and Constraints from LEP, XXXth International Conference on High Energy Physics July 27 - August 2, 2000, Osaka, Japan.
172. Synthesis of the Light Elements: D to B, Theory Division Colloquim, CERN, Geneve, October 2000.
173. Supersymmetric Dark Matter, Physics Colloquium, Department of Physics, University of Geneva, November 2000.
174. Big Bang Nucleosynthesis, Invited review at Cosmic Evolution, Institut d'Astrophysique, Paris, France, November 2000.
175. SUSY Benchmarks, CLIC Physics Meeting, CERN, November 2000.
176. Supersymmetric Dark Matter, Physics Colloquium, Penn State University, State College, PA, December 2000.
177. The Status of Big Bang Nucleosynthesis, Astrophysics Seminar, Oxford University, Oxford, UK, January 2001.
178. Dark Matter and Supersymmetry, High Energy Physics Seminar, Univerity of Pisa, Pisa, Italy, February 2001.
179. Theoretical Aspects of Dark Matter Detection, invited talk at Matter in the Universe, ISSI, Bern, Switzerland, March 2001.
180. Supersymmetric Dark Matter Confronted by Accelerator Constraints, High Energy Physics Seminar, University of Bonn, Bonn Germany, April 2001.
181. Big Bang Nucleosynthesis, Physics Colloquium, University of Bonn, Bonn Germany, April 2001.
182. Dark Matter and Supersymmetry, Physics Colloquium, Oxford University, Oxford England, May 2001.
183. Cosmology and Particle Physics, 5 lectures in the Acedmic Training Series, CERN, Geneva Switzerland, May 2001.
184. Supersymmetric Dark Matter Confronted by Accelerator Constraints, invited talk at the EURESCO International Conference "From the Planck Scale to the Electroweak Scale", Lalonde les Maures, France, May 2001.
185. Radion Stabilization and Cosmological Evolution, Talk given at the Living on the Wall Workshop, University of Minnesota, Minneapolis MN, May 2001.

186. Cosmology and Particle Physics, 5 lectures at the Summer School on Particle Physics, ITCP Trieste Italy, June 2001.
187. Big Bang Nucleosynthesis, invited talk at Cosmo01, Rovaniemi, Finland, September 2001.
188. Cosmos: Perspectives and Reflections, set of 5 invited lectures, Mcalester University, St. Paul, MN, September-October, 2001.
189. Dark Matter in the Universe, Physics seminar, Mankato State University, Mankato, MN, November 2001.
190. Big Bang Nucleosynthesis, Implications of Recent CMB Data and Supersymmetric Dark Matter, Physics Colloquium, Iowa State University, Ames Iowa, November 2001.
191. Supersymmetric Dark Matter, High Energy Physics Seminar, National Taiwan University, Taipei, Taiwan, December 2001.
192. Dark Matter in the Universe, Physics Colloquium, Academia Sinica, Taipei, Taiwan, December 2001.
193. Particle Physics in the Early Universe, Invited Lecture at the First NCTS Workshop on Astroparticle Physics, Kenting Taiwan, December 2001.
194. Variations of the Fundamental Couplings, Astrophysics Seminar, Institut d'Astrophysique de Paris, Paris France, February 2002.
195. Testing Supersymmetry with Accelerators and Cosmology, High Energy Physics Seminar, University of Chicago, Chicago, IL, April 2002.
196. Searching for Supersymmetric Dark Matter, Invited talk at CosPA 2002, International Symposium on Cosmology and Particle Astrophysics, National Taiwan University, Taipei, Taiwan, June 2002.
197. Dark Matter, Three invited lectures at the Theoretical Advanced Studies Institute (TASI), University of Colorado, Boulder CO, June 2002.
198. CDM in Supersymmetric Models, Invited talk at SUSY02, DESY, Hamburg Germany, June 2002.
199. Variations in the Fundamental Constants: models and constraints, Invited talk at the Blaise Pascal Conference on String/Brane Cosmology, IHES/Orsay, France September 2002.
200. Cosmos: Perspectives and Reflections, set of 5 invited lectures, Mcalester University, St. Paul, MN, September-October, 2002.
201. Direct and Indirect Detection of Cold Dark Matter, invited talk at From Here to Infinity - Extending the Frontiers of Cosmology- A Weekend Symposium to Celebrate the 60th Birthday of Professor Joseph Silk, University of Oxford, Oxford, England, December 2002.

202. SUGRA Dark Matter, invited talk at The International Conference 20 Years of SUGRA and Search for SUSY and Unification (SUGRA20), Northeastern University, Boston MA, March 2003.
203. Time Varying Fundamental Constants, invited talk at the April Meeting of the American Physical Society, Philadelphia PA, April 2003.
204. Cosmos: Perspectives and Reflections, set of 5 invited lectures, Mcalester University, St. Paul, MN, March - April, 2003.
205. Constraining mSUGRA models with dark matter, invited talk at From the Planck Scale to the Electroweak Scale (Planck-03), Madrid, Spain, May 2003.
206. Supersymmetric Dark Matter in Light of WMAP, invited talk at SUSY 2003: Supersymmetry in the Desert, Tucson, AZ, June 2003.
207. Dark Matter Particle Physics Candidates, invited talk at CAPP2003: Workshop on Cosmology and Particle Physics, CERN, Geneva, Switzerland, June 2003.
208. Dark Matter from Minimal Supergravity Models, invited talk at The Eighth Claude Itzykson Meeting: Which model(s) for the Early Universe?, Saclay, Gif-sur-Yvette, France, June 2003.
209. Supersymmetric Dark Matter, invited talk at the Tenth Maciel Grossman Meeting on General Relativity, Rio de Janeiro, Brasil, July 2003.
210. Constraints on the Variations of Fundamental Constants, invited talk at the Tenth Maciel Grossman Meeting on General Relativity, Rio de Janeiro, Brasil, July 2003.
211. Particle Candidates for Dark Matter, Physics Department Seminar, University of Nebraska, Lincoln, NE, October 2003.
212. Particle Candidates for Dark Matter, Physics Department Colloquium, University of Notre Dame, Notre Dame IN, November 2003.
213. Particle Candidates for Dark Matter, Physics Department Colloquium, University of Victoria, Victoria BC, November 2003.
214. Cosmos: Perspectives and Reflections, set of 5 invited lectures, Mcalester University, St. Paul, MN, October - December, 2003.
215. Is α Varying?, Invited talk at Bad Honnef, Germany, December 2003.
216. Is there evidence for the variation of fundamental constants?, Physics and Astronomy Department Colloquium, Ohio University, February 2004.
217. SUSY Dark Matter, Cosmology and Astrophysics Seminar, University of Wisconsin, Madison, WI, April 2004.

218. Is there evidence for the variation of fundamental constants?, Physics Department Colloquium, University of Wisconsin, Madison, WI, April 2004.
219. Big Bang Nucleosynthesis in the post-WMAP era, Invited talk at the Mitchell Symposium on Observational Cosmology, Texas A+M University, College Station, TX, April 2004.
220. Cosmos: Perspectives and Reflections, set of 5 invited lectures, Mcalester University, St. Paul, MN, February - April 2004.
221. Big Bang Nucleosynthesis in the post-WMAP era, Invited talk at the Workshop on Cosmology: Facts and Problems, College de France, Paris France, June 2004.
222. Particle Astrophysics, Two invited lectures at the Theoretical Advanced Studies Institute (TASI), Unvirisity of Colorado, Boulder CO, June 2004.
223. Supersymmetric Candidates for Dark Matter, Invited talk at the 5th International Workshop on the Identification of Dark Matter, Edinburgh, UK, September 2004.
224. The Status of Varying Coupling Constants in Cosmology, Invited talk at Cosmo 04, CITA, Toronto, Canada, September 2004.
225. Big Bang Nucleosynthesis in the post-WMAP era, Physics department seminar, University of Guelph, Guelph, Canada, September 2004.
226. Dark Matter Candidates in Supersymmetric Models, Invited talk at Dark 2004, Texas A + M University, College Station, TX, October 2004.
227. Dark Matter Candidates in Supersymmetric Models, Invited talk at Miami 2004, Celebrating 40 year of quarks, cosmology, CP-violation, and physics conferences in greater Miami, Key Biscayne, FL, December 2004.
228. Implications of WMAP on BBN and SUSY Dark Matter, invited talk at Pheno 05, Madison, WI, May 2005.
229. Gravitino Dark Matter and related issues, invited talk at the KIAS-APCTP-DMRC workshop on the Dark Side of the Universe, Seoul, Korea, May 2005.
230. Dark Matter and Particle Physics Candidates, Four Invited Lectures at the Research School on Cosmology, Feza Gursey Institute, Tubitak-Bogazici University, Istanbul, Turkey, July 2005.
231. The Current Status of BBN, Seminar, Feza Gursey Institute, Tubitak-Bogazici University, Istanbul, Turkey, July 2005.
232. Big Bang Nucleosynthesis: Does it Fit, Invited talk at the Workshop on Open Questions in Cosmology, Max Planck Institute for Astrophysics, Garching, Germany, August 2005.

233. Dark Matter: Theory, Invited talk at New Views on the Universe, Kavli Institute Inaugural Symposium in memory of David Schramm, Chicago, IL, December, 2005.
234. On Neutrino Signatures from the First Stars, III International Workshop on: NO-VE "Neutrino Oscillations in Venice", Venice Italy, February 2006.
235. Particle Candidates for Dark Matter, Physics Department Colloquium, University of Iowa, Iowa City, Iowa, February 2006.
236. Big Bang Nucleosynthesis, Physics Department Seminar, University of Iowa, Iowa City, Iowa, February 2006.
237. Particle Candidates for Dark Matter, Physics Department Colloquium, University of California, Davis, California, March 2006.
238. SUSY Dark Matter, High Energy Physics Seminar, University of California, Davis, California, March 2006.
239. The theory behind how experiments should focus on Dark Matter Searches and Cosmology in HEE, not just Colliders, invited talk at the 2nd Symposium on Astronomy, Cosmology and Fundamental Physics, Texas A+M University, College Station, TX, April 2006.
240. 2 for 2 for 2: 2 Lithium Isotopes, 2 Lithium Problems, 2 Lithium Solutions?, invited talk at Fundamental Astro-Particle Physics: A Conference Celebrating Gary Steigman's 65th Birthday, Ohio State University, Columbus, OH, May 2006.
241. Searching for Dark Matter in Unifications Models: A Hint from Indirect Sensitivites towards Future Signals in Direct Detection and B-decays, invited talk at Complementarity between Dark Matter Searches and Collider Experminets, University of California, Irvine, CA, June 2006.
242. Lithium Update, invited talk at Complementarity between Dark Matter Searches and Collider Experminets, University of California, Irvine, CA, June 2006.
243. Searching for Dark Matter in Unifications Models: A Hint from Indirect Sensitivites towards Future Signals in Direct Detection and B-decays, invited talk at Dark Side of the Universe 2006, Univerisidad Autonoma, Madrid, Spain, June 2006.
244. Dark Matter and Dark Matter Candidates, invited talk at Cospar 2006, Beijing, China, July 2006.
245. The Status of Big Bang Nucleosynthesis, invited talk at the DESY Theory Workshop 2006, DESY, Hamburg, September 2006.
246. The Production of the Light Elements from D to B, Physics Department Colloquium, University of Kansas, Lawrence, Kansas, October 2006.

247. Do the Fundamental Constants Vary in Time?, Joint High Energy/Astrophysics Seminar, University of Kansas, Lawrence, Kansas, October 2006.
248. The Violent Universe: The Big Bang, 3 lectures at the Les Houches School of Physics on the Violent Universe, Les Houches, France, March 2007.
249. Nuclear Origins: Nuclear Chemistry in the Early Universe, invited talk at the meeting of the American Chemical Society, Chicago, IL, March 2007.
250. Cosmos: Perspectives and Reflections, set of 4 invited lectures, Mcalester University, St. Paul, MN, February - April 2007.
251. Big Bang Nucleosynthesis and Constraints on the variation of fundamental couplings, Institute for Nuclear Theory Workshop on Neutron Physics seminar, University of Washington, Seattle, WA, April 2006.
252. Big Bang Cosmology: What do we know about the Universe, 3 lectures in the Compleat Scholar Program, University of Minnesota, St. Paul, MN, May 2007.
253. Colliders and Cosmology, invited talk at SUSY07, Karlsruhe Germany, July 2007.
254. Big Bang Cosmology, invited talk at the lecture series: River Connection: The University of Minnesota Visits Grand Rapids, Grand Rapids MN, October 2007.
255. Dark Matter: From Cosmology to Colliders, invited talk at the lecture series: Distinguished Faculty Luncheons, University of Minnesota, November 2007.

- Current Graduate Students:
P. Sandick

- Previous Graduate Students:
K.-W. Ng, Ph.D. 6/89
D. Thomas, Ph.D. 6/91
N. Kaloper, Ph.D. 6/92
R. Madden, Ph.D. 9/96
S. Scully, Ph.D. 8/97
A. Ferstl, Ph.D. 6/00
S. Lee, Ph.D. 5/05

- Courses Developed
Physics 8083: General Relativity-Cosmology and Particle Physics

- University-wide committees
IT Promotions and Tenure committee 1996-9 (Chair: 1998-1999)

- Volunteer Services
Refereeing for: (approximately 2 per month)
Physical Review D
Physical Review Letters
Physics Letters
Nuclear Physics B
Astrophysical Journal
Astrophysical Journal Letters
Astroparticle Physics
Grants for NSF and DOE

Member of the Particle Data Group, an international group of high energy physicists which produce the Review of Particle Properties of which I am a co-author. This review appears every other year and is a widely used (it averages about 1000 citations) compilation of experimentally verified information on the properties of elementary properties.

- Contracts:
Principal Investigator for Department of Energy grant to Theoretical High Energy Physics
(Five faculty total)