

Professor David W. Hertzog

(Abbreviated CV, 1995 - present)

Academic Positions

Academic positions held

<u>Title</u>	<u>Institution</u>	<u>Dates</u>
Research Assistant	College of William & Mary	1977-1978
Research Associate	Carnegie-Mellon University	1983-86
Assistant Professor	University of Illinois	1986-1992
Associate, Center for Advanced Study	University of Illinois	1990
Associate Professor, Physics	University of Illinois	1992-1997
Professor, Physics	University of Illinois	1997-
Guggenheim Fellow	Guggenheim Foundation	2004-2005

Honors, Recognitions, and Outstanding Achievements

Guggenheim Foundation Fellowship (2004-2005)
BP Amoco Award for Innovation in Undergraduate Instruction (2003)
University Scholar (2000-2002)
Fellow American Physical Society (2000)
Everitt Award for Teaching Excellence, 1994
W. Keck Foundation Award for Engineering Teaching Excellence 1994
Amoco Award for Innovation in Undergraduate Education 1997
"Incomplete List of Excellent Teachers" (many courses)

Service Activities (1995 - present)

APS Publications Oversight Comm. 1995- 1998
APS Journal Pricing Subcommittee 1996
Reviewer of PRL and PRC professional journals.
Member Steering Committee, Hadron Beams Town Meeting, Division of Nuclear Physics 1995
DOE Review proposals in high energy physics & nuclear physics
Nuclear Physics DOE Natl. Review Panel member, Spring 1994
Lepton Beams Panel and Hadron Beams Panel (total review of 67 grants)
DOE Review Panel for Los Alamos Nuclear program, Sept. 1996
DOE Special Review Panel STAR Endcap EM Calorimeter, May. 1999, Feb., 2000
NSF Review proposals in nuclear physics
Special Scientific Review of KFA-Julich COSY Project, Germany, Sept. 1999
Member DoE Nuclear Science Advisory Committee (NSAC) 1995-1998
NSAC Subpanel on DOE-sponsored Intermediate Energy Nuclear Science, 1998
NSAC Long Range Planning, member Steering Comm., Hadron Beams town meeting; 1995
NSAC Long Range Plan Writing Group Member; 1995
US Representative, OECD Working Group on Hadron Physics; 1998
Brookhaven AGS Users Executive Committee (elected) 1994-1996
Chairman AGS/RHIC Users Executive Committee; 1997-1999
Organizing Committee and Session Coordinator, Baryons '95 Conference; 1995
Steering Committee, Hadron Physics in the 21st Century; 1998

Intl. Symp. on Lepton Moments Scientific Advisory Panel; 1999
 Scientific Council, Institute of Nuclear Physics (IKP) of Forschungszentrum Jülich GmbH, 2001
 Organizing Committee, Electromagnetic and Hadron Physics Town Meeting; 2000
 Organizing Committee, Fundamental Symmetries Town Meeting; 2000
 Division of Nuclear Physics Program Committee; 2001- 2003
 NSAC Long Range Plan Working Group; 2001
 NSF Experimental Nuclear Physics Review Panel; Jan. 2001
 NSAC Subcommittee on Fundamental Neutron Science; 2003
 CIPANP 2003 Vice Chairman (Conference on the Intersections of Particle and Nuclear Physics)
 CIPANP 2006 Chairman (Conference on the Intersections of Particle and Nuclear Physics)
 Division of Nuclear Physics Executive Committee; 2004-2006
 NSAC Long Range Plan Working Group; 2007

Articles in Journals (all years)

D. W. Hertzog, M. Eckhause, K. L. Giovanetti, J. R. Kane, W. C. Phillips, W. F. Vulcan, R. E. Welsh, R. J. Whyley, R. G. Winter, G. W. Dodson, J. P. Miller, F. O'Brien, B. L. Robert, D. R. Rieger, R. J. Powers, N. J. Colella, R. B. Sutton, and A. R. Kunselman. Precision measurement of the magnetic moment of the Σ^- hyperon. *Phys. Rev. Lett.* **51**, 1131-1134 (1983).

K. L. Giovanetti, W. Dey, M. Eckhause, R. D. Hart, R. Hartmann, D. W. Hertzog, J. R. Kane, W. A. Orance, W. C. Phillips, R. T. Siegel, W. F. Vulcan, R. E. Welsh, and R. G. Winter. Mean life of the positive muon. *Phys. Rev. D* **29**, 343-348 (1984).

P. D. Barnes, R. A. Eisenstein, D. W. Hertzog et al. CP invariance in the reaction $\bar{p}p \rightarrow \bar{\Lambda}\Lambda \rightarrow \bar{p}\pi^+\pi\pi^-$ at 1.546 GeV/c. *Phys. Lett. B* **199**, 147-150 (1987).

P. D. Barnes, R. A. Eisenstein, and D. W. Hertzog. Study of the reaction $\bar{p}p \rightarrow \bar{\Lambda}\Lambda$ near threshold. *Phys. Rev. B* **189**, 249-253 (1987).

L. Tang, D. W. Hertzog et al. Observations of hyperon-nucleus systems produced on ^{12}C and ^7Li targets using the (K^-, π^+) reaction at 715 MeV/c. *Phys. Rev. C* **38**, 846-853 (1988).

D. W. Hertzog et al. Exotic atom measurement of the magnetic dipole moment of the Σ^- using the exotic atom technique. *Phys. Rev. D* **37**, 1142-1152 (1988).

K. P. Gall, D. W. Hertzog et al. Precision measurement of the K^- and Σ^- masses. *Phys. Rev. Lett.* **60**, 186-189 (1988).

P. D. Barnes, R. A. Eisenstein, D. W. Hertzog et al. Threshold measurement of the reaction $\bar{p}p \rightarrow \bar{\Lambda}\Lambda$ at LEAR. *Phys. Lett.* **B229**, 432 (1989).

C. J. Batty, M. Eckhause, K. P. Gall, P. P. Guss, D. W. Hertzog, J. R. Kane, A. R. Kunselman, J. P. Miller, F. O'Brien, W. C. Phillips, R. J. Powers, B. L. Roberts, R. B. Sutton, W. F. Vulcan, R. E. Welsh, R. J. Whyley, and R. G. Winter. Strong interaction effects in high-Z K^- atoms. *Phys. Rev. C* **40**, 2154-2158 (1989).

K. F. Johnson, S. Majewski, C. Zorn, M. Zorn, and D. W. Hertzog. High dose calorimetry with scintillating fibers. *IEEE Trans. Nucl. Sci.* **NS-37**, 500 (1990).

D. W. Hertzog, P. T. Debevec, R. A. Eisenstein, M. A. Graham, S. A. Hughes, P. E. Reimer,

and R. L. Tayloe. A high-resolution lead/scintillating fiber electromagnetic calorimeter. Nucl. Instrum. & Meth. **A 294**, 446-458 (1990).

P. D. Barnes, R. A. Eisenstein, D. W. Hertzog et al. Measurement of the reaction $\bar{p}p \rightarrow \bar{\Lambda} \Sigma^0 + c.c.$ at 1.695 GeV/c. Phys. Lett. B **246**, 273-277 (1990).

P. D. Barnes, R. A. Eisenstein, D. W. Hertzog et al. Study of the reaction $\bar{p}p \rightarrow \bar{\Lambda} \Lambda$ at 1.546 and 1.695 GeV/c. Nucl. Phys. A **526**, 575-601 (1991).

J. J. Szymanski, R. A. Eisenstein, D. W. Hertzog et al. Nonleptonic weak decay of $^5_\Lambda\text{He}$ and $^{12}_\Lambda\text{C}$. Phys. Rev. C **43**, 849-862 (1991).

S. Bianco, R. Casaccia, L. Daniello, F. L. Fabbri, M. Giardoni, D. W. Hertzog, S. Hughes, M. Lindozzi, L. Passamonti, P. Reimer, V. Russo, S. Sarwar, R. Tayloe, L. Votano, and A. Zallo. High-resolution of electromagnetic Pb-SCIFI calorimetry: an investigation on fibres and tests with low-energy photons. Nucl. Instrum. & Meth. **A315**, 322-326 (1992).

D. Bassi, P. T. Debevec, D. W. Hertzog et al. Status of the jetset (PS202) experiment at cern-lear. Cern-PS-202 experiment. Sov. J. Nucl. Phys. **55**, 827-835 (1992).

B. Babusci, D. W. Hertzog, S. Hughes, P. Reimer, R. Tayloe et al. Test of Pb/SCIFI electromagnetic calorimeter prototypes with low energy photons at LADON. Nucl. Instrum. & Meth. (1993).

D. A. Simon, D. W. Hertzog, T. D. Jones, M. W. Rhodes, and M. B. Yairi. Modeling and scanning of lightguides for Pb/SCIFI calorimeters. Nucl. Instrum. & Meth. A **335**, 86-101 (1993).

D. Babusci, D. W. Hertzog, S. Hughes, P. Reimer, and R. Tayloe. Lead/scintillating fiber electromagnetic calorimeters with $4.8\%/\sqrt{E}$ [\bar{E} [\bar{G} \bar{e} \bar{V}]] energy resolution in the 20-80 MeV range. Nucl. Instrum. & Methods in Physics Research, Section A **332**, 444-458 (1993).

M. Macri, P. T. Debevec, R. A. Eisenstein, T. Fearnley, P. Harris, D. W. Hertzog, S. Hughes, P. Reimer et al. Proton anti-proton annihilations to $\Phi\Phi$ mesons: Results from jetset at Lear. Nucl. Phys. A **558**, 27-42 (1993).

P. D. Barnes, R. A. Eisenstein, D. W. Hertzog et al. Measurement of the reaction $\bar{p}p \rightarrow K_s K_s$ in the region near $\sqrt{s} = 2230$ MeV. Phys. Lett. B **309**, 469-476 (1993).

R. J. Powers, D. W. Hertzog et al. Strong-interaction effect measurements in sigma hyperonic atoms of W and Pb. Phys. Rev. C **47**, 1263-1273 (1993).

M. G. Pia, P. T. Debevec, R. A. Eisenstein, T. Fearnley, P. Harris, D. W. Hertzog, S. Hughes, P. Reimer et al. Recent results on meson spectroscopy from jetset. Nucl. Phys. A **57**, 1503-1512 (1994).

O. Steinkamp, P. T. Debevec, D. W. Hertzog et al. Results from anti-p $p \rightarrow \Phi\Phi$. Nuovo Cimento **107A**, 2329-2337 (1994).

P. T. Debevec, R. A. Eisenstein, T. Fearnley, P. Harris, D. W. Hertzog, S. Hughes, P. Reimer et al. Results from $\bar{p}p \rightarrow \Phi\Phi$. Nuovo Cimento A **107**, 2329-2337 (1994).

P. D. Barnes, P. Birien, W. H. Bruenlich, W. Dutty, R. A. Eisenstein, D. W. Hertzog et al.

Study of the reaction $\bar{p}p \rightarrow \Lambda \bar{\Lambda}$ below 6 MeV excess energy. Phys. Lett. B **331**, 203-210 (1994).

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P. D. Barnes, R. A. Eisenstein, D. W. Hertzog, R. Tayloe et al. Observables in high-statistics measurements of the reaction $p \bar{p} \rightarrow \Lambda\Lambda$. Phys. Rev. C **54**, 1877-1886 (1996).

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A. Buzzo, P. T. Debevec, R. A. Eisenstein, P. G. Harris, D. W. Hertzog, S. A. Hughes, P. E. Reimer et al. Search for narrow anti- $p \bar{p}$ resonances in the reaction anti- $p \bar{p} \rightarrow$ anti- $p \bar{p} \pi^+ \pi^-$. Eur. Phys. J. C **76**, 475-478 (1997). Erratum: Eur. Phys. J. C **5**, 739 (1998).

P. D. Barnes, R. A. Eisenstein, D. W. Hertzog, R. Tayloe et al. Measurement of the reactions $p \bar{p} \rightarrow \Sigma^+\Sigma^+$ and $\bar{p}p \rightarrow \Sigma^-\Sigma^-$ close to threshold. Phys. Lett. B **402**, 227-236 (1997).

C. Evangelista, A. Palano, P. T. Debevec, R. A. Eisenstein, P. G. Harris, D. W. Hertzog et al. Measurement of the $\bar{p}p \rightarrow K_s K_s$ reaction from 0.6 to 1.9 GeV/c. Phys. Rev. D **56**, 3803-3810 (1997).

C. Evangelista, P. T. Debevec, R. A. Eisenstein, P. G. Harris, D. W. Hertzog et al. Search for narrow $p\bar{p}$ resonances in the reaction $\bar{p}p \rightarrow p\bar{p} \pi^+ \pi^-$. Z. Phys. C **76**, 475-478 (1997).

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R. Prigl, P. T. Debevec, W. Deninger, and D. W. Hertzog. Status of the BNL muon (g-2) experiment. IEEE Trans. Instrum & Measure. **48**, 182-185 (1999).

M. G. Perdekamp, B. Bunker, P. T. Debevec, W. Deninger, D. W. Hertzog, T. Jones, C. Polly, S. Sedykh, D. Urner et al. Status of the g-2 experiment at BNL. Nucl. Phys. B **76**, 253-260 (1999).

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P. D. Barnes, G. Franklin, R. McCrady, F. Merrill, C. Meyer, B. Quinn, R. A. Schumacher, V. Zeps, H. Fischer, J. Franz, E. Rossle, M. Ruh, H. Schmitt, R. Todenhagen, K. Kilian, W. Oelert, K. Rohrich, K. Sachs, T. Sefzick, B. D. Bunker, R. A. Eisenstein, P. G. Harris, D. W.

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H.N. Brown, P. T. Debevec, W. Deninger, F. Gray, D. W. Hertzog, C.J.G. Onderwater, C. Polly, S. Sedykh, M. Sossong and D. Urner et al. Improved measurement of the positive muon anomalous magnetic moment. Phys. Rev. D **62** 091101, (2000).

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P. D. Barnes, B. Bunker, H. Dennert, R. A. Eisenstein, W. Eyrich, H. Fischer, G. Franklin, J. Franz, R. Geyer, P. Harris, J. Hauffe, D. Hertzog, T. Johansson, T. Jones, K. Kilian, W. Oelert, S. Pomp, B. Quinn, K. Röhrich, E. Rössle, K. Sachs, H. Schmitt, T. Sefzick, J. Seydoux, F. Stinzinger, R. Tayloe, R. Todenhausen, E. Traneus, S. Wirth; Measurement of the $\bar{p}p \rightarrow K_S K_S \eta$ cross section at beam momenta in the regions of 1.45 and 1.7 GeV/c; Phys. Lett. B 516 (2001) 257-263.

Measurement of Spin-Transfer Observables in $p\bar{p} \rightarrow \Lambda\bar{\Lambda}$ at 1.637 GeV/c; Phys.Rev.Lett. 89 (2002) 212302, B. Bassalleck,¹ A. Berdoz,² C. Bradtke,³ R. Bröders,⁴ B. Bunker,⁵ H. Dennert,⁶ H. Dutz,⁷ S. Eilerts,¹ W. Eyrich,⁶ D. Fields,¹ H. Fischer,⁸ G. Franklin,² J. Franz,⁸ R. Gehring,³ R. Geyer,⁴ S. Goertz,³ J. Harmsen,³ J. Hauffe,⁶ F. H. Heinsius,⁸ D. Hertzog,⁵ T. Johansson,⁹ T. Jones,⁵ P. Khaustov,² K. Kilian,⁴ P. Kingsberry,¹ E. Krieglner,⁸ J. Lowe,¹ A. Meier,³ A. Metzger,⁶ C. A. Meyer,² W. Meyer,³ M. Moosburger,⁶ W. Oelert,⁴ K. D. Paschke,² M. Plückthun,⁷ S. Pomp,⁹ B. Quinn,² E. Radtke,³ G. Reicherz,³ K. Röhrich,⁴ K. Sachs,⁴ H. Schmitt,⁸ B. Schoch,⁷ T. Sefzick,⁴ F. Stinzinger,⁶ R. Stotzer,¹ R. Tayloe,⁵ and St. Wirth⁶ (PS185 Collaboration)

G.W. Bennett, P. T. Debevec, W. Deninger, F. Gray, D. W. Hertzog, C.J.G. Onderwater, C. Polly, S. Sedykh, M. Sossong and D. Urner et al. Muon g-2 Collaboration, *Measurement of the Positive Muon Anomalous Magnetic Moment to 0.7 ppm*, Phys.Rev.Lett. 89 (2002) 101804; Erratum-ibid. 89 (2002) 129903.

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David W. Hertzog, William M. Morse *The Brookhaven Muon Anomalous Magnetic Moment Experiment*, Annual Review of Nuclear and Particle Science Jan 2004, Vol. 54 (in press).

[B. Bassalleck et al.](#) Depolarization and spin transfer in anti-p p ---> Antilambda Lambda with a polarized target. 2004. 4pp. Nucl. Instrum. Meth. B214 167-170,2004.

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[D.W. Hertzog](#) and [W.M. Morse](#), **The Brookhaven muon anomalous magnetic moment experiment.**, *Ann.Rev.Nucl.Part.Sci.***54:141-174,2004.**

Muon g-2 Collaboration ([G.W. Bennett *et al.*](#)). **Measurement of the negative muon anomalous magnetic moment to 0.7 ppm.** *Phys.Rev.Lett.***92:161802,2004.**

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Experimental determination of the complete spin structure for anti-p p ---> anti-Lambda Lambda at p(anti-p) = 1.637-GeV/c.

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168) **Why do we need the new BNL muon g-2 experiment now?**

[David W. Hertzog](#) ([Illinois U., Urbana](#)) . Nov 2006. 10pp.

Invited talk at 9th International Workshop on Tau Lepton Physics (Tau06), Pisa, Italy, 19-22 Sep 2006.

e-Print Archive: **hep-ex/0611025**

Invited Talks (1995 – present)

"International Nuclear Physics Facilities" NSAC Town Meeting Hadron Facilities	Town Meeting Argonne	Jan. 1995
"Muon Magic in the $(g-2)_\mu$ Experiment" (for High School Physics Teachers program)	APS/DNP Bloomington, IN	Oct. 1995
"Physics with High Energy Antiprotons" International workshop on physics with a 50 GeV-PS	Tokyo	Dec. 1995
"Thoughts on the need for a 50 GeV PS" Panel Talk concluding above workshop	Tokyo	Dec. 1995
"Recent results with low-energy antiprotons" Seminar, Michigan State University	East Lansing, MI	Feb., 1996
"Physics experiments can't be done on the Web" Plenary Talk, AAPT Meeting	Urbana, IL	April 1996
"Antiproton physics working group summary" AGS2000 Workshop	Upton, NY	May, 1996
"Physics experiments can't be done on the Web" Colloquium, UIUC	Urbana, IL	Sept. 19, 1996
"Measurement of the Anomalous Magnetic Moment of the muon to 0.35 ppm: The $(g-2)_\mu$ Experiment" SUNY at Stonybrook, Seminar	Stony Brook, NY	March 19, 1997
"In-Flight Hadron Spectroscopy at LEAR" Invited Talk, Conference on the Intersections of Nuclear and Particle Physics	Big Sky, MT	May 28, 1997
Chair of Rountable on "Perspectives on Hadron Spectroscopy"; 7th Intl Conf. on Hadron Spectroscopy	Brookhaven, NY	Aug. 27, 1997
"The Physics of Music" UIUC Saturday Physics Honors Program	Urbana, IL	Nov. 22, 1997
"View from a U.S. Physicist" OECD MegaScience Forum Working Group on Hadron Beams	Tsukuba, Japan	March 3, 1998
"The Brookhaven $(g-2)_\mu$ Measurement: A simple experiment 1998 with a thousand details" PASCOS '98 Invited Symposium	Boston, MA	March 26, 1998

"Antiprotons at the AGS" Invited talk, Workshop on Hadron Physics in the 21st Century	Washington, DC	March 27, 1998
"Non qqbar II: Tensor Glue" International Workshop on JHF Science"	Tsukuba, Japan	March 4, 1998
"Antiproton Physics above 2 GeV/c" International Workshop on JHF Science"	Tsukuba, Japan	March 5, 1998
"The New Brookhaven (g-2) μ Experiment" Invited Talk; Sixth Intl. Symp. on Particles, Strings and Cosmology; PASCOS-98	Boston, MA	March 26, 1998
"The Brookhaven (g-2) μ Measurement" Nuclear Physics Seminar	Cal Tech	April 24, 1998
"The Brookhaven (g-2) μ Measurement" Particle Physics Seminar	CERN	May 12, 1998
"Annihilation in Flight" Symposium on 14 years of Physics with Low-Energy Antiprotons at LEAR	CERN	May 15, 1998
"The Brookhaven (g-2) μ Measurement" Particle Physics Seminar	Florida State Univ.	Oct 23, 1998
"Measuring the Muon's Anomalous Magnetic Moment to Unprecedented Precision: Why and How" Colloquium	Indiana University	Nov 18, 1998
"New Results on the Muon's Anomalous Magnetic Moment" Nuclear Physics Seminar/Colloquium	KFA-Julich, Germany	Sept. 27, 1999
"New Results on the Muon's Anomalous Magnetic Moment" Colloquium	Northwestern Univ. Chicago	Nov. 10, 1999
"New Results on the Muon's Anomalous Magnetic Moment" Colloquium	Univ. Connecticut, Storrs, CT	Nov. 19, 1999
"New Results on the Muon's Anomalous Magnetic Moment" Laboratory Colloquium	TRIUMF, Vancouver, BC	Jan. 7, 2000
"New proposals for a precision measurement of the muon lifetime" Seminar	TRIUMF, Vancouver, BC	Jan. 6, 2000
"CP violation in hyperon decays" Workshop	IIT Chicago, IL	Aug 4, 2000

"New Results on the Muon's Anomalous Magnetic Moment" Colloquium	Argonne Chicago, IL	Oct. 20, 2000
"Precision Measurement Physics with Pions and Muons" Nuclear Physics Town Meeting on Astrophysics, Neutrinos, and Symmetries; Invited Talk	Oakland, CA	Nov. 10, 2000
"How the Muon's Spin Challenges the Standard Model" Colloquium	Carnegie Mellon Univ. Pittsburgh, PA	Feb. 19, 2001
"A Precision Measurement of the Muon's Anomalous Magnetic Moment" Colloquium	Jefferson Laboratory. Newport News, VA	March 12, 2001
"The Spin of the Muon and what it Teaches us about the Standard Model" Colloquium	Univ. of Maryland College Park, MD	March 13, 2001
"New Results from the muon g-2 Experiment at BNL" Invited Talk, American Physical Society,	Washington, D.C.	April 30, 2001;
"New Results from the Muon g-2 Experiment at BNL" Seminar	Orsay University of Paris – South	May 9, 2001
"Precision Measurement of the Muon Anomalous Magnetic Moment" Invited Talk, Second Meeting on CPT and Lorentz Symmetry,	Bloomington, IN	Aug. 18, 2001
"How the Muon's Spin Challenges the Standard Model" Colloquium	Stanford University	Oct. 2, 2001
"The BNL Muon Anomalous Magnetic Moment Measurement" Invited talk, Workshop on Electromagnetic Probes of Fundamental Physics	Erice, Italy	Oct. 17, 2001
"How the Muon's Spin Challenges the Standard Model" Colloquium	Caltech	May 23, 2002.
"Muon g-2 and the Standard Model" Plenary Talk, Particle and Nuclear International Conference	Osaka, Japan	Oct. 4, 2002
"How the Muon's Spin Challenges the Standard Model" Invited Talk for undergraduates at the DNP Fall meeting	MSU	Oct. 12, 2002
"Does the muon anomalous magnetic moment agree with theory?," Invited Talk, INT Workshop on Fundamental Symmetries and Weak Interactions.	Seattle, WA,	Nov. 15, 2002

"Has the muon magnetism revealed a crack in the standard model?" Colloquium	UIUC	Nov. 19, 2002
"Has the muon magnetism revealed a crack in the standard model?" Colloquium	Arizona State	Feb. 6, 2003
"The Muon g-2 Experiment,"	Aspen, CO	Feb, 2004
Invited talk at the Winter Conference on Particle Physics		
"Has the muon magnetism revealed a crack in the standard model?" LBL Colloquium	Berkeley, CA	April 21, 2004