

April 2010

**CURRICULUM VITAE****DONAL DAY****PERSONAL DATA**

**OFFICE ADDRESS:** University of Virginia  
Institute of Nuclear and Particle Physics  
382 McCormick Road  
PO Box 400714  
Charlottesville, VA 22904-4714  
dbd@virginia.edu

**TELEPHONE:** 434-924-6566

**HOME ADDRESS:** 151 Buckingham Circle  
Charlottesville, Virginia 22903  
434-296-2494

**DATE OF BIRTH:** April 2, 1950

**MARITAL STATUS:** Married, two children

**EDUCATIONAL HISTORY**

B.A. Physics, with Distinction, University of Virginia 1973

Ph.D. Nuclear Physics, University of Virginia 1979

**PROFESSIONAL EXPERIENCE**

1973-79 Research Assistant, University of Virginia

1976-77 Visiting Scientist, Stanford Linear Accelerator Center

1979-83 Research Associate, University of Virginia

1980-82 Assistant Professor, University of Virginia

1983-85 Visiting Scientist, Stanford Linear Accelerator Center

1984-85 Staff Physicist, CEBAF

**PROFESSIONAL EXPERIENCE** (cont'd)

1985-1989	Research Assistant Professor, Department of Physics, Institute of Nuclear and Particle Physics, University of Virginia
1989-1996	Research Associate Professor, Department of Physics, Institute of Nuclear and Particle Physics, University of Virginia
1996 - present	Research Professor, Department of Physics, Institute of Nuclear and Particle Physics, University of Virginia

**SOCIETIES**

American Physical Society  
Sigma Xi

**COMMITTEES**

Appointed Member, Executive Committee of the Institute of Nuclear and Particle Physics, 1989 - 2003

Elected Member, Thomas Jefferson Lab User Group Board of Directors (JLBOD), April 1998 – April 2000.

Jefferson Lab's Hall C Steering Committee, 1988 –1992, 2002–2004.

Elected Member, University of Virginia General Faculty Council, 1997 – 2004

Jefferson Scholars Graduate Selection Committee, 2003, 2004, 2005, 2006

**RESEARCH INTERESTS**

Polarized targets and polarizable materials.

Deep inelastic electron scattering from nuclei at large momentum transfers.

Studies of short range correlations in nuclei.

Nucleon elastic form factors using spin degrees of freedom.

Nucleon spin structure functions.

Cogeneration of energy

**Spokesperson or co-spokesperson for following experiments:**

- SLAC NPAS NE3, Quasielastic Electron Scattering at High Momentum Transfer, completed, published.
- JLAB E-89-008, Inclusive Scattering for Nuclei at  $x > 1$  and High  $Q^2$ , completed, published.
- JLAB E-93-026, The Charge Form Factor of the Neutron, completed, published.
- JLAB E-02-019, Inclusive Scattering from Nuclei at  $x > 1$  and High  $Q^2$  with a 6 GeV Beam, completed, publication in draft form.
- JLAB E-04-113, Semi-Inclusive Spin Asymmetries on the Nucleon Experiment, approved 2004, deferred 2008

- JLAB, E-05-101, Initial State Helicity Correlation in Wide Angle Compton Scattering, approved 2005, delayed 2008
- JLAB, E12-06-105, Inclusive Scattering from Nuclei at  $x > 1$  in the quasielastic and deeply inelastic regimes, approved 2006.
- JLAB, E08-007 – Measurement of the Proton Elastic Form Factor Ratio at Low  $Q^2$ , approved 2008.
- JLAB, E08-014, 2N and 3N short range correlation studies in inclusive scattering, approved 2008, scheduled for Spring 2011

## FUNDED RESEARCH

Current funding:

PI with D. Crabb, “Electron Interactions with Nuclei, U.S. Department of Energy”, with D.G. Crabb, \$2,076,000 for the period December 1, 2007 - November 30, 2010.

CoPi with D. Crabb, National Science Foundation, Collaborative Research: “MRI-Consortium for the Development and Construction of a Longitudinally Polarized Proton and Deuteron Target for CLAS12 at Jefferson Lab”, with Old Dominion University and Christopher Newport University, \$86,673.

1985-1998: Co-Pi with J. S. McCarthy and others, DOE. “Electron Interactions with Nuclei”.

1998–present: PI with D.G. Crabb, DOE, “Electron Interactions with Nuclei”.

## Thesis Advisor

J.S. McCarthy

## Current Students

James Maxwell

Vahe Mayman

Jonathan Mulholland

Zhihong Ye (starting summer 2010)

Mikhail Yurov

## Previous Students

C. Cothran (Ph.D. 2000)

H. Zhu (Ph.D. 2000)

P. McKee (Ph.D. 2000)

C. Harris (Ph.D. 2001)

Justin Wright (M.S. 2007)

Nadia Fomin (Ph.D. 2008)

And others with J. McCarthy not listed

## Research Associates

S. Bueltmann  
B. Zihlmann  
F. Wesselmann  
M. Zeier  
G. Warren  
S. Tajima  
K. Slifer  
H. Baghdasaryan (current)  
N. Kalantarians (current)

## TEACHING EXPERIENCE

Physics 321, Classical Mechanics, 1995, 1996, 1997 and 2009 (Hue University)  
Physics 242E, Modern Physics, 1995 and 1996.  
Physics 241E, Physics for Engineers, 2005 and 2006  
Physics 1425, Physics for Engineers, Spring 2010

## PUBLICATIONS

1. "Elastic Electron Scattering from  $^3\text{He}$  and  $^4\text{He}$  at High Momentum Transfers", R. Arnold, B. Chertok, S. Rock, W. Schutz and Z. Szalata, D. Day and J. McCarthy, F. Martin, B. Mecking, I. Sick, B. Tamas, Phys. Rev. Lett. **40**, 1429 (1978).
2. "Inclusive Electron Scattering from  $^3\text{He}$ ", D. Day, J. McCarthy, I. Sick, R. Arnold, B. Chertok, S. Rock, Z. Szalata, G. Tamas and B. Mecking, Phys. Rev. Lett. **43**, 1143 (1979).
3. "Longitudinal and Transverse Inelastic Electron Scattering from  $^{56}\text{Fe}$ ", R. Altemus, A. Cafolla, D. Day, J. McCarthy, R. Whitney and J. Wise, Phys. Rev. Lett. **44**, 965 (1980).
4. "Nuclear High Momentum Components and  $\gamma$  Scaling in Electron Scattering", I. Sick, D. Day, J. McCarthy, Phys. Rev. Lett. **45**, 871 (1980).
5. "Pion-Deuteron Elastic Scattering for Momenta from 408 to 600 MeV/c", R. Minehart, J. Boswell, J. Davis, D.B. Day, J. McCarthy, R. Whitney, H.J. Ziock, and E. Wadlinger, Phys. Rev. Letters **46**, 1185 (1981).
6. "Inelastic Electron Scattering from  $^3\text{He}$  and  $^4\text{He}$  in the Threshold Region at High Momentum Transfer", S. Rock, R. Arnold, B. Chertok, Z. Szalata, D.B. Day, J. McCarthy, F. Martin, B. Mecking, I. Sick and G. Tamas, Phys. Rev. **C26**, 1592 (1981).
7. "Threshold and Quasi-elastic Electron Scattering from Light Nuclei", with J. McCarthy, Report of the Workshop on Future Directions in Electromagnetic Physics, 1981, p. 179.

8. "An Investigation of the Short Range Behavior of Nucleons by the (e,e,2N) Reaction", D.B. Day, J. McCarthy, E. Hadjimichael and C. Papanicolas, Report of the Workshop on Future Directions in Electromagnetic Nuclear Physics, 229 (1981).
9. "Y-Scaling in Electron-Nucleus Scattering", D.B. Day, J.S. McCarthy, Z.E. Meziani, R. Minehart, R. Sealock, S.T. Thornton, J. Jourdan, I. Sick, B. Filippone, R. McKeown, R. Milner, D. Potterveld and Z. Szalata, Phys. Rev. Letters **59**, 427 (1987).
10. "Isoscalar and isovector form factors of  $^3\text{H}$  and  $^3\text{He}$  below 2.9 fm<sup>-1</sup> from electron-scattering measurements", D. Beck, A. Bernstein, I. Blomqvist, H. Caplan, D. Day, P. Demos, W. Dodge, G. Dodson, K. Dow, S. Dytman, M. Farkhondeh, J. Flanz, K. Giovanetti, R. Goloskie, E. Hallin, E. Knill, S. Kowalski, J. Lightbody, R. Lindgren, X. Maruyama, J. McCarthy, B. Quinn, G. Retzlaff, W. Sapp, C. Sargent, D. Skopik, I. The, D. Tieger, W. Turchinets, T. Ueng, N. Videla, K. von Reden, R. Whitney, and C. Williamson, Phys. Rev. Letters **59**, 1537 (1987).
11. "Inclusive Electron Scattering at High  $Q^2$  in the Region of  $1 < x < 3$ ", D. Day, Nucl. Phys. **A418**, 397C (1988).
12. "Longitudinal Response Functions and Sum Rules for Quasielastic Electron Scattering from  $^3\text{H}$  and  $^3\text{He}$ ", D. Beck, A. Bernstein, I. Blomqvist, H. Caplan, D. Day, P. Demos, W. Dodge, G. Dodson, K. Dow, S. Dytman, M. Farkhondeh, J. Flanz, K. Giovanetti, R. Goloskie, E. Hallin, E. Knill, S. Kowalski, J. Lightbody, R. Lindgren, X. Maruyama, J. McCarthy, B. Quinn, G. Retzlaff, W. Sapp, C. Sargent, D. Skopik, I. The, D. Tieger, W. Turchinets, T. Ueng, N. Videla, K. von Reden, R. Whitney, and C. Williamson, Phys. Rev. Letters **61**, 1706 (1988).
13. "Electron excitation of the  $\Delta(1232)$  in Nuclei", R.M. Sealock, K.L. Giovanetti, S.T. Thornton, Z.E. Meziani, O.A. Rondon-Aramayo, S. Auffret, J.P. Chen, D.G. Christian, D.B. Day, J.S. McCarthy, and R.C. Minehart, Phys. Rev. Letters **62**, 1351 (1989).
14. "Experimental Determination of Momentum Distributions in Nuclear Physics", D. Day, Proceedings of the Workshop on Momentum Distributions, Argonne National Lab., edited by R.N. Silver and P.E. Sokol, Plenum Publishing, 315 (1989).
15. "Nuclear Matter Response Functions", D.B. Day, J.S. McCarthy, Z.E. Meziani, R. Minehart, R. Sealock, S.T. Thornton, J. Jourdan, I. Sick, B. Filippone, R. McKeown, R. Milner, D. Potterveld and Z. Szalata, Phys. Rev. **C40**, 1011 (1989).
16. "Inclusive Electron Scattering at High Momentum Transfers", Proceedings of the 4th Workshop on Perspectives in Nuclear Physics at Intermediate Energies, edited by S. Boffi, C. Ciofi degli Atti, M. Giannini, World Scientific, 165 (1989).
17. "Can Y scaling Tell us about 2N Processes?", Proceedings of the Topical Workshop on Two-Nucleon Emission Reactions, World Scientific 1990. Edited by O. Benhar and A. Fabrocini.
18. "Scaling in Inclusive Electron-Nucleus Scattering", D.B. Day, J. McCarthy, T.W. Donnelly and I. Sick, Annual Reviews of Nuclear and Particle Science, Vol. 40, 357 (1990).
19. "Longitudinal and Transverse Response Functions in  $^{56}\text{Fe}(e,e)$  at Momentum Transfers Near

- 1 GeV/c", J.P. Chen, Z.E. Meziani, D. Beck, G. Boyd, L.M. Chinitz, D.B. Day, L.C. Dennis, G. Dodge, B.W. Filippone, D.L. Giovanetti, J. Jourdan, K.W. Kemper, T. Koh, W. Lorenzon, J.S. McCarthy, R.D. McKeown, R.G. Milner, R.C. Minehart, J. Morgenstern, J. Mougey, D.H. Potterveld, O.A. Rondon-Aramayo, R.M. Sealock, L.C. Smith, S.T. Thornton, R.C. Walter, and C. Woodward, Phys. Rev. Lett. **66** 1283 (1991).
20. "Inclusive Quasi-elastic and Deep Inelastic Electron Scattering", Proceedings of the 2nd European Workshop on Hadronic Physics with Electrons Beyond 10 GeV, Nucl. Phys. **A532** 255c (1991).
21. "The EMC Effect of Nuclear Matter", I. Sick and D.B. Day, Phys. Lett. **B274**, 16 (1992).
22. "Deep Inelastic Electron Scattering from Nuclei at  $x > 1$ ", B. Filippone, R.D. McKeown, R.G. Milner, D.H. Potterveld, D.B. Day, J.S. McCarthy, Z.E. Meziani, R. Minehart, R. Sealock, S.T. Thornton, J. Jourdan, I. Sick, and Z. Szalata, Phys. Rev. **C45** 1582 (1992).
23. "Quasi-elastic and Electron Scattering of Nuclear Systems: Nucleon Momentum Distributions, Spectral Functions, and Off-Shell Effects", C. Ciofi degli Atti, D.B. Day, and S. Luiti, Phys. Rev. **C46** 1045 (1992).
24. "High Momentum Transfer  $R_{L,T}$  Inclusive Response Functions for  ${}^{3,4}\text{He}$ ", Z.E. Meziani, J.P. Chen, D. Beck, G. Boyd, L.M. Chinitz, D.B. Day, L.C. Dennis, G. Dodge, B.W. Filippone, D.L. Giovanetti, J. Jourdan, K.W. Kemper, T. Koh, W. Lorenzon, J.S. McCarthy, R.D. McKeown, R.G. Milner, R.C. Minehart, J. Morgenstern, J. Mougey, D.H. Potterveld, O.A. Rondon-Aramayo, R.M. Sealock, L.C. Smith, S.T. Thornton, R.C. Walter, and C. Woodward. Phys. Rev. Lett. **69** 41 (1992).
25. "Measurements of the Spin-Dependent Structure Function  $g_1(x)$  of the Deuteron", The Spin Muon Collaboration, B. Adeva et al. Phys. Lett. **B302** 533 (1993).
26. "Inclusive Electron-Nucleus Scattering at High Momentum Transfer", D.B. Day, J.S. McCarthy, Z.E. Meziani, R. Minehart, J. Jourdan, I. Sick, B.W. Filippone, R.D. McKeown, R.G. Milner, D.H. Potterveld, and Z. Szalata, Phys. Rev. **C48** 1849 (1993).
27. "Pion Absorption in  ${}^4\text{He}$  Above the Delta Resonance", L.C. Smith, R.C. Minehart, D.B. Day, R. Lourie, R.M. Marshall, J.S. McCarthy, B. Milbrath, R. Sealock, and S.T. Thornton, B.G. Ritchie, K.L. Giovanetti, K. Baker, and D. Tedeschi, Phys. Rev. **C48** R485 (1993).
28. "Evidence for Short Range Correlations from high  $Q^2$  (e,e') reactions", L. Frankfurt, M. Strikman, D.B. Day, and M. Sargsian, Phys. Rev. **C48** 2451 (1993).
29. "Combined Analysis of the world's data on nucleon spin structure functions", Spin Muon Collaboration, Phys. Lett. **B320** 400 (1994).
30. "Measurement of the polarization of a high energy muon beam", Spin Muon Collaboration, Nucl. Instr. Methods, **A343** 363 (1994).
31. "Measurement of the Deuteron Polarization in a Large Target", B. Adeva *et al.*, Nucl. Instr. Meth., **A349** 3344 (1994).

32. "Precision Measurement of the neutron magnetic form factor", H. Anklin *et al.*, Phys. Lett. **B336** 313 (1994).
33. "Precision Measurement of the Proton Structure Function  $g_1^p$ ", K. Abe *et al.* (The E143 Collaboration), Phys. Rev. Lett. **74** 346 (1995).
34. "The Virginia/Basel/SLAC Polarized Target: Operation and Performance during Experiment E143 at SLAC", D.G. Crabb and D.B. Day, Proceedings of the 7th Int. Workshop on Polarized Target Materials and Techniques, Bad Honnef, Germany, 1994, Nucl. Instr. Meth. **A356** 9 (1995).
35. "On-line system for NMR polarization measurement", N. Hayashi, *et al.*, Nucl. Instr. Meth. **356** 91 (1995).
36. "Spin Structure Results from E143", D.B. Day for the E143 Collaboration, Proceedings of the Eleventh International Symposium on High Energy Spin Physics and the Eighth International Symposium on Polarization Phenomena in Nuclear Physics, SPIN 94, Bloomington, AIP Conference Proceedings **343** 733 (1995).
37. "Precision Measurement of the Deuteron Structure Function  $g_1^d$ ", K. Abe *et al.* (The E143 Collaboration), Phys. Rev. Lett. **75** 25(1995).
38. "Measurements of the  $Q^2$  dependence of the proton and deuteron spin structure functions  $g_1^p$  and  $g_1^d$ ", K. Abe *et al.* (The E143 Collaboration), Phys. Lett. **B 364** 61 (1995).
39. "Measurements of the Proton and Deuteron Spin Structure Function  $g_2^2$  and Asymmetry  $A_2$ ", K. Abe *et al.* (The E143 Collaboration), Phys. Rev. Lett. **76** 587 (1996).
40. "Large Enhancement of deuteron polarization with frequency modulated microwaves", B. Adeva *et al.* (SMC Collaboration), Nucl. Instr. Meth. **A 372** 339 (1996, erratum - *ibid* **A 376** 490 (1996)).
41. "Measurement of the proton and deuteron spin structure function  $g_1$  in the resonance region". K. Abe, *et al.*, (The E143 Collaboration), Phys. Rev. Lett. **78** 815 (1996).
42. "Depolarization of dynamically polarized solid targets due to beam heating effects", T.J. Liu, T.D. Averett, D.G. Crabb, D.B. Day, J.S. McCarthy and O.A. Rondon, Nuclear Instruments and Methods in Physics **A405** 1 (1998.)
43. "Off-shell corrections and moments of the deep inelastic nuclear structure functions", C.D. Cothran, D. B. Day, and S. Liuti, Phys. Lett. **B 421** 46 (1998).
44. "Quasifree (e,e'p) Reactions and Proton Propagation in Nuclei", D. Abbott *et al.* Phys. Rev. Lett. **80** 5072 (1998).
45. "Measurements of the proton and deuteron spin structure functions  $g_1$  and  $g_2$ " K. Abe *et al.*, (The E143 Collaboration), Phys. Rev. **D58**, 112003 (1998).
46. "Inclusive Electron-Nucleus Scattering at Large Momentum Transfer", J. Arrington *et al.*, Phys. Rev. Lett. **82** 2056 (1999).

47. "A study of lithium deuteride as a material for a polarized target", S. Bueltmann, D. G. Crabb, D. B. Day, B. Gardner, C. M. Harris, R. D. Hutchins, J. R. Johnson, J. S. McCarthy, P. M. McKee, W. Meyer, S. I. Penttila, E. Ponikvar, A. Rijllart, O. Rondon-Aramayo, S. St. Lorant, W. A. Tobias, S. Trentalange, H. Zhu, B. Zihlmann, D. Zimmermann, Nucl. Inst. Meth., **A425** 23 (1999).
48. "A solid polarized target for high luminosity experiments", T.D. Averett, D.G. Crabb, D. B. Day, T.J. Liu, J.S. McCarthy, O. Rondon, D. Zimmermann, I. Sick, B. Zihlmann, G. Court, H. Dutz, A. Rijllart, S. St. Lorant, J. Button-Shafer, and J. Johnson, Nucl. Instr. Meth., **A427** 440 (1999).
49. "Measurements of  $R = \frac{\sigma_L}{\sigma_T}$  for  $0.03 < x < 0.1$  and fit to world data", K. Abe et al. Phys. Lett. **B 452** 194 (1999).
50. Measurement of the deuteron spin structure function  $g_1^d(x)$  for  $1 < Q^2 < 40$  (GeV/c)<sup>2</sup>. E155 Collaboration (P.L. Anthony et al.), Phys. Lett. B **463** 339 (1999).
51. "Inclusive hadron photoproduction from longitudinally polarized protons and deuterons", E155 Collaboration (P.L. Anthony et al.), Phys. Lett. B **458** 536 (1999).
52. "Measurement of the proton and deuteron spin structure functions  $g_2$  and asymmetry  $A_2$ ". E155 Collaboration (P.L. Anthony et al.), Phys. Lett. B **458** 529 (1999).
53. "Separated spectral functions for the quasifree  $^{12}\text{C}(e, e'p)$  reaction", D. Dutta, et al. Phys. Rev. C, **61** 06160 (R), 2000 Rapid Communications.
54. "Experimental Verifications of Quark-Hadron Duality", I. Niculescu et al., Phys. Rev. Lett. **85** 1182 (2000).
55. "Evidence for Valence-Like Quark-Hadron Duality", I. Niculescu, et al., Phys. Rev. Lett. **85** 1186 (2000).
56. Measurements of the  $Q^2$  Dependence Of The Proton And Neutron Spin Structure Functions  $g_1^p$  and  $g_1^n$ . By E155 Collaboration (P.L. Anthony et al.), Phys. Lett. B **493** 19 (2000).
57. " $x$  and  $\xi$  scaling of the nuclear structure function at large  $Q^2$ ", J. Arrington, C.S. Armstrong, T. Averett, O.K. Baker, L. de Bever, C.W. Bochna, W. Boeglin, B. Bray, R.D. Carlini, G. Collins, C. Cothran, D. Crabb, D. Day, J.A. Dunne, D. Dutta, R. Ent, B.W. Filippone, A. Honegger, E.W. Hughes, J. Jensen, J. Jourdan, C.E. Keppel, D.M. Koltenuk, R. Lindgren, A. Lung, D.J. Mack, J. McCarthy, R.D. McKeown, D. Meekins, J.H. Mitchell, H.G. Mkrtychyan, G. Niculescu, I. Niculescu, T. Petitjean, O. Rondon, I. Sick, C. Smith, B. Terburg, W.F. Vulcan, S.A. Wood, C. Yan, J. Zhao, B. Zihlmann, Phys. Rev. C **64** 014602 (2001).
58. "A Measurement of the Electric Form Factor of the Neutron through  $\vec{d}(\vec{e}, e'n)p$  at  $Q^2 = 0.5$  (GeV/c)<sup>2</sup>", H. Zhu, A. Ahmidouch, H. Anklin, H. Arenhovel, C. Armstrong, C. Bernet, W. Boeglin, H. Breuer, P. Brindza, D. Brown, S. Bueltmann, R. Carlini, N. Chant, A. Cowley, D. Crabb, S. Danagoulian, D.B. Day, T. Eden, R. Ent, Y. Farah, R. Fatemi, K. Garrow, C. Harris, M. Hauger, A. Honegger, J. Jourdan, M. Kaufmann, M. Khandaker, G. Kubon, J. Lichtenstadt, R. Lindgren, R. Lourie, A. Lung, D. Mack, S. Malik, P. Markowitz, K. McFarlane, P. McKee, D. McNulty, G. Milanovich, J. Mitchell, H. Mkrtychyan, M. Muhlbauer, T. Petitjean, Y. Prok, D. Rohe, E. Rollinde, O.A.

Rondon, P. Roos, R. Sawafta, I. Sick, C. Smith, T. Southern, M. Steinacher, S. Stepanyan, V. Tadevosian, R. Tieulent, A. Tobias, W. Vulcan, G. Warren, H. Wohrle, S. Wood, C. Yan, M. Zeier, J. Zhao, Phys. Rev. Lett. **87** 081801 (2001).

59. "Measurement of the high energy two-body deuteron photodisintegration differential cross section", E.C. Schulte et al., Phys. Rev. Lett. **87** 102302 (2001).

60. "Precision measurement of the proton and deuteron spin structure functions  $g_2$  and asymmetries  $A_2$ ." By E155 Collaboration (P. L. Anthony, R. G. Arnold, T. Averett, H. R. Band, N. Benmouna, W. Boeglin, H. Borel, P. E. Bosted, S. L. Bultmann, G. R. Court, D. Crabb, D. Day, P. Decowski, P. DePietro, H. Egiyan, R. Erbacher, R. Erickson, R. Fatemi, E. Frlez, K. A. Griffioen, C. Harris, E. W. Hughes, C. Hyde-Wright, G. Igo, J. Johnson, P. King, K. Kramer, S. E. Kuhn, D. Lawrence, Y. Liang, R. Lindgren, R. M. Lombard-Nelsen, P. McKee, D.E. McNulty, W. Meyer, G. S. Mitchell, J. Mitchell, M. Olson, S. Penttila, G. A. Peterson, R. Pitthan, D. Pocanic, R. Prepost, C. Prescott, B. A. Raue, D. Reyna, P. Ryan, L. S. Rochester, S. Rock, O. Rondon-Aramayo, F. Sabatie, T. Smith, L. Sorrell, S. St. Lorant, Z. Szalata, Y. Terrien, A. Tobias, T. Toole, S. Trentalange, F. R. Wesselmann, T. R. Wright, M. Zeier, H. Zhu, B. Zihlmann.). SLAC-PUB-8813, Apr 2002. 12pp, Phys.Lett.B553:18-24,2003 , e-Print Archive: hep-ex/0204028

61. "Nuclear transparency from quasielastic  $A(e, e' p)$  reactions up to  $Q^2 = 8.1(\text{GeV}/c)^2$ ." By K. Garrow (Jefferson Lab), D. McKee (New Mexico State U.), A. Ahmidouch, C.S. Armstrong, J. Arrington, R. Asaturyan, S. Avery, O.K. Baker, D.H. Beck, H.P. Blok, C.W. Bochna, W. Boeglin, P. Bosted, M. Bouwuis, H. Breuer, D.S. Brown, A. Bruell, R.D. Carlini, N.S. Chant, A. Cochran, L. Cole, S. Danagoulian, D.B. Day, J. Dunne, D. Dutta, R. Ent, H.C. Fenker, B. Fox, L. Gan, D. Gaskell, A. Gasparian, H. Gao, D.F. Geesaman, R. Gilman, P.L.J. Gueye, M. Harvey, R.J. Holt, X. Jiang, C.E. Keppel, E. Kinney, Y. Liang, W. Lorenzon, A. Lung, D.J. Mack, P. Markowitz, J.W. Martin, K. McIlhany, D. Meekins, M.A. Miller, R.G. Milner, J.H. Mitchell, H. Mkrtchyan, B.A. Mueller, A. Nathan, G. Niculescu, I. Niculescu, T.G. O'Neill, V. Papavassiliou, S. Pate, R.B. Piercey, D. Potterveld, R.D. Ransome, J. Reinhold, E. Rollinde, P. Roos, A.J. Sarty, R. Sawafta, E.C. Schulte, E. Segbefia, C. Smith, S. Stepanyan, S. Strauch, V. Tadevosyan, L. Tang, R. Tieulent, A. Uzzle, W.F. Vulcan, S.A. Wood, F. Xiong, L. Yuan, M. Zeier, B. Zihlmann, V. Ziskin (American U. & Argonne & Colorado U. & Florida Intl. U. & Florida State U. & George Washington U. & Hampton U. & Illinois U., Urbana & Maryland U. & MIT, LNS & Michigan U. & Mississippi State U. & New Mexico State U. & North Carolina A-T State U. & Ohio U. & Oregon State U. & Rutgers U., Piscataway & Jefferson Lab & Virginia U. & Vrije U., Amsterdam & William-Mary Coll. & Yerevan Phys. Inst.). Sep 2001. 11pp. e-Print Archive: hep-ex/0109027, Phys. Rev. **C66**, 044613 (2002).

62. "The Electric Form Factor of the Neutron." By Donal Day, in Proceedings of the 21<sup>st</sup> International Workshop on Nuclear Theory, Sofia, Bulgaria, 2001, Ed. By V. Nikolaev, Heron Press, Sofia, 2002.

63. "Measurement of the Neutron Electric Form Factor  $G_E^n$  in  $\bar{d}(\vec{e}, e' n)p$  Quasi-elastic Scattering. By Donal Day in Proceedings of Electron-Nucleus VII, Marciana Marina, Isola d'Elba, Italy, June 23-28, 2002. Eur.Phys.J.A17:329-334,2003.

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## INVITED TALKS

1. "Nuclear Power - Is It Necessary?", Colloquium, University of Virginia, February 1981.
2. "U.S. Energy Future", Seminar, James Madison University, April 1981.
3. "Threshold and Quasi-elastic Scattering at High Momentum Transfers", Seminar, University of Illinois, February 1982.
4. "Nuclear Physics at SLAC - A New Facility, the First Results", Fall Meeting, Division of Nuclear Physics, American Physical Society, Asilomar, California, October 1985.
5. "Electronuclear Physics at NPAS", Seminar, National Bureau of Standards, Gaithersburg, Maryland, November 1985.
6. "Electronuclear Physics at High Energy", Colloquium, University of Virginia, November 1985.
7. "Scaling in Nuclei", 2nd International Conference on the Intersections between Nuclear and Particle Physics, Lake Louise, Canada, May 1986.
8. "Recent Trends in Electronuclear Physics", Gordon Research Conference on Nuclear Structure, Tilton, New Hampshire, July 1986.
9. "Inclusive Electron Scattering at High Momentum Transfer in the Region  $1 < x < 3$ ", XI International Conference on Particles and Nuclei (PANIC), Kyoto, Japan, April 1987.
10. "Nuclear Matter Response Functions", Seminar, Department of Physics, University of Virginia, April 7, 1988.
11. "Scaling in Nuclei", Colloquium, Department of Physics, Brooklyn College, May 17, 1988.
12. "Scaling in Nuclei - Helium to Nuclear Matter", Workshop on Relativistic Nuclear Many Body Physics, Ohio State University, Columbus, OH, June 6-9, 1988.
13. "Inelastic Electron Scattering at  $x > 1$ ", Gordon Research Conference on Photonuclear Reactions, Plymouth, NH, August 8-12, 1988.

14. "Experimental Determination of Momentum Distributions in Nuclear Physics", Workshop on Momentum Distributions, Argonne National Laboratory, October 24-26, 1988.
15. "Scaling in Nuclei", Nuclear Physics Seminar, Department of Physics, University of Maryland, Nov. 14, 1988.
16. "Y Scaling in Nuclei", Joint Nuclear Physics Seminar, University of Pittsburgh and Carnegie-Mellon University, Pittsburgh, PA, Dec. 1, 1988.
17. "The Electromagnetic Response and Scaling in Nuclei", Colloquium, Department of Physics, Washington University, St. Louis, Feb. 22, 1989.
18. "Inclusive Electron Scattering at High Momentum Transfer", 4<sup>th</sup> Workshop on Perspectives in Nuclear Physics at Intermediate Energies, International Center for Theoretical Physics, Trieste, Italy, May 8-12, 1989.
19. "What Can Y scaling Tell About 2N Processes", Topical Workshop on Two-Nucleon Emission Reactions", Elba International Physics Center, Marciana Marina, Isola d'Elba, Italy, Sept. 19-23, 1989.
20. "Selected Topics in Electron Scattering at High Momentum Transfer", Los Alamos Meson Physics Facility, Nov. 15, 1989.
21. "Y scaling and Correlations in Nuclei", 19th International Workshop on Nuclear Theory, Rila Mountains, Sofia, Bulgaria, June 10-16, 1990.
22. "Quasielastic and Deep Inelastic Electron Scattering at High Momentum Transfers", 2nd European Workshop on Hadronic Physics with Electrons Beyond 10 GeV, Dourdan, France, October 8-12, 1990.
23. "Scaling and Correlations in Nuclei", Workshop on Effects of Correlations in Nuclei", Fall Meeting of Division of Nuclear Physics, American Physical Society, Champaign-Urbana, October 24, 1990.
24. "Deep Inelastic Scattering at  $x > 1$  as a Probe of High Momentum Components", 5th Workshop on Perspectives in Nuclear Physics at Intermediate Energies, International Center for Theoretical Physics, Trieste, Italy May 6-10, 1991.
25. "Considerations of Quasielastic and Deep Inelastic Electron Scattering at High Momentum Transfer", 50 GeV Workshop, SLAC, June 1991.
26. "A Gas Cerenkov Detector for the High Momentum Spectrometer in Hall C". CEBAF Summer Workshop, June 1992, Newport News.
27. "Quark Distributions at  $x > 1$ , an Experimental Opportunity in Inclusive Electron Scattering", Fermilab National Laboratory Workshop on Perspectives of High Energy Strong Interactions Physics at Hadron Facilities", August 1993, Batavia, Illinois.

28. "The University of Virginia/E143 Polarized Target: Operation and Performance in an Intense Electron Beam", 7th Workshop on Polarized Target Materials and Techniques, June 20-22, 1994, Bad Honnef, Germany.
29. "A LabVIEW/Macintosh based Control, Monitoring and NMR System for the University of Virginia/E143 Polarized Target", 7th Workshop on Polarized Target Materials and Techniques, June 20-22, 1994, Bad Honnef, Germany.
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31. "Where is the Spin of the Proton? Results from E143", Colloquium, Department of Physics, Florida International University, Miami, October 5, 1994.
32. "Deep Inelastic Scattering at  $x > 1$  and the CEBAF Experiment in 1995", Nuclear Seminar, University of Virginia, March 7, 1995.
33. "Polarized Solid Ammonia Targets", Workshop on Short Range Structure in Nuclei, CEBAF, March 15, 1996.
34. "The Spin of the Nucleon", Colloquium, University of Virginia, Department of Physics, March 20, 1996.
35. "Plans for a VXXI Based NMR system for Polarized Targets", Workshop on NMR for Polarized Targets, April 1998, Charlottesville.
36. "Deep Inelastic Scattering at 12 GeV", Workshop on Physics Opportunities at 12 GeV, Jefferson Lab, January 13-15, 2000.
37. "Inclusive electron Scattering at  $x > 1$ , Opportunities with a Jefferson Lab Upgrade", Workshop on Correlations in Nuclei, Institute of Nuclear Theory, University of Washington, Seattle, March 14, 2001.
38. "Food Irradiation: An Outsider's Perspective", Symposium on Food Irradiation, University of Illinois School of Public Health, Chicago, June 15, 2001.
39. "The Electric Form Factor of the Neutron", XXI International Workshop on Nuclear Theory, Rila Mountains, Bulgaria, June 10-15, 2002.
40. "Measurement of the Electric Form Factor of the Neutron through  $\vec{d}(\vec{e}, e' n) p$ ", Electron-Nucleus VII, Marciana Marina, Isola d'Elba, Italy, June 23-28, 2002.
41. "Measurement of the Neutron Electric Form Factor  $G_E^n$  in  $\vec{d}(\vec{e}, e' n) p$  Quasi-elastic Scattering", FIU/JLAB Workshop on the Deuteron, March 27-29, 2003, Florida International University, Miami.

42. "Nucleon Form Factors, Experiments and Data", A Celebration of CEBAF Physics: Highlights of the First Seven Years, Users Group Symposium & Annual Meeting, Jefferson Lab, June 11-13, 2003, Newport News.
43. "Developments in the measurements of  $G_E^n$  the neutron electric form factor", LowQ03, 2nd Workshop on Electromagnetic Nuclear Reactions at Low Momentum Transfer, July 16-18, 2003 Saint Mary's University, Halifax, Nova Scotia, Canada.
44. "Developments in the measurement of  $G_E^n$ , the neutron electric form factor", International Workshop on Probing Nucleons and Nuclei via the  $(e,e'p)$  Reaction, October 14-17, 2003, Grenoble-France.
45. "The Nucleon Elastic Form Factors", Hirscheegg '04: Probing Nuclei and Nucleons with Electrons and Photons, International Workshop XXXII on Gross Properties of Nuclei and Nuclear Excitations, Waldemar-Petersen-Haus, Hirscheegg, Kleinwalsertal, January 11-17, 2004.
46. "The Neutron Electric Form Factor - the Neutron is not Neutral!", Physics Department Colloquium, North Carolina A & T University, Greensboro, February, 16, 2004.
47. "The Nucleon Form Factors, Data and Experiment", 10th International Baryons Conference, Ecole Polytechnique (Palaiseau, France) October 25 – 29, 2004.
48. "Inclusive Electron-Nucleus Scattering at  $x > 1$  and High Momentum Transfer", The IVth International Conference on Quarks and Nuclear Physics, Madrid, June 5-10, 2006.
49. "Nucleon Elastic Form Factors: Current Status of the Experimental Effort", The IVth International Conference on Quarks and Nuclear Physics, Madrid, June 5-10, 2006.
50. "Physics Overview of Inclusive Electron-Nucleus Scattering at  $x > 1$ ", Hall C Summer Meeting, Jefferson Lab, Newport News, August 24, 2006
51. "Inclusive scattering at  $x > 1$ , a review of the physics and the prospects at 12 GeV", Topical Workshop on Short-Range Correlations in Nuclei to Memorialize Kim Egiyan, Jefferson Lab, Newport News, Virginia, USA October 20-21, 2006.
52. "Probing Dense Nuclear Matter Through Inclusive Electron Scattering", at Winter Retreat on Cold Dense Nuclear Matter, February 15-17, 2007, Florida International University, Miami, FL.
53. "Inclusive Electron Scattering from Nuclei in the Quasielastic Region", at NuInt07, Fifth International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region, May 30, 2007 - June 3, 2007 Fermilab, Batavia, Illinois USA.
54. "Inclusive Inelastic Electron-Nucleus Scattering at Large Momentum Transfers and  $x > 1$ ", International Workshop on Dense and Cold Nuclear Matter and Hard Exclusive Processes August 20, 2007 - August 24, 2007, Het Pand, Ghent University, Ghent, Belgium.
55. "Inclusive Electron Scattering at  $x > 1$ ", Workshop on Short-Range Structure of Nuclei at 12 GeV, October 26–27, 2007, Jefferson Lab, Newport News, VA USA.

56. “Scaling and Short Range Correlations in Inclusive Electron-Nucleus Scattering at High Momentum Transfers”, Sixth International Conference on Perspectives in Hadronic Physics, ICTP, Trieste, Italy, 12–16 May 2008.
57. “Probing Short Range Correlations through Inclusive Electron Scattering at high Momentum Transfers”, ECT\* Workshop on Nuclear Medium Effects on the Quark and Gluon Structure of Hadrons, Trento, Italy, 3–7 June, 2008.
58. “The Transition from Quasielastic to Deep Inelastic Scattering at  $x > 1$ : Are We There Yet?” D. Day, given at the Electroweak Interactions with Nuclei: Superscaling and Connections Between Electron and Neutrino Scattering, ECT\*, Trento, Italy 26–30 Oct. 2009