Publications

August 2000

John S. Hendricks

Refereed Journal Articles

1. J. S. Hendricks, K. J. Adams, T. E. Booth, J. F. Briesmeister, L. L. Carter, L. J. Cox, J. A. Favorite, R. A. Forster, G. W. McKinney, R. E. Prael, "Present and Future Capabilities of MCNP," *Applied Radiation and Isotopes,* **53,** No. 4-5, 857-861 Elsevier Sciences, Ltd. (Netherlands), Pergamon Press, NY, (October - November 2000)

2. H. E. McLaughlin and J. S. Hendricks, "Performance of Scientific Computing Platforms with MCNP4B," *Nuclear Science and Engineering,* **129,** 311-319 (July, 1998)

3. John S. Hendricks, "A Monte Carlo Code for Particle Transport," *Los Alamos Science,* **22**, 30-43 (October 1994)

4. J. S. Hendricks and R. C. Brockhoff, "Comparison of Scientific Computing Platforms for MCNP4A Monte Carlo Calculations," *Nuclear Science and Engineering,* **116,** 269-277 (April, 1994)

5. J. S. Hendricks and J. F. Briesmeister, "Recent MCNP Developments," *IEEE Transactions on Nuclear Science,* **39**, 4, 1035-1040 (August 1992)

6. J. S. Hendricks and R. E. Prael, "Monte Carlo Next-Event Estimates from Thermal Collisions," *Nuclear Science and Engineering,* **109** (3) 150 - 157 (October 1991)

7. J. S. Hendricks, "Effects of Changing the Random Number Stride in Monte Carlo Calculations," *Nuclear Science and Engineering,* **109** (1) 86 - 91 (September 1991)

8. R. A. Forster, R. C. Little, J. F. Briesmeister, and J. S. Hendricks, "MCNP Capabilities For Nuclear Well Logging Calculations," *IEEE Transactions on Nuclear Science,* **37** (3), 1378 (June 1990)

9. G.D.Doolen,J.S.Hendricks, "Monte Carlo at Work," *Los Alamos Science,* **15** 142-143 (1987)

10. R. S. Brown, Jr., J. S. Hendricks, "Implementation of Stratified Sampling for Monte Carlo Applications," *Nuclear Science and Engineering,* **97** 245-248 (1987)

11. S. N. Cramer, J. Gonnord, J. S. Hendricks,"Monte Carlo Techniques for Analyzing Deep-Penetration Problems," *Nuclear Science and Engineering*, **92** 280-288 (1986)

12. B. R. Wienke, J. S. Hendricks, T. E. Booth, "Approximate and Exact Photon-Maxwellian Electron Cross-Sections and a Monte Carlo Sampling Scheme," *J. Quant. Spectrosc. Radiat. Transfer*, **33** 555-74 (1985)

13. T. E. Booth, J. S. Hendricks, "Monte Carlo Sampling of Compton Scatter Off Moving Electrons," *Nuclear Science and Engineering,* **90** 248-255 (July, 1985)

14. J. S. Hendricks, L. L. Carter, "Anisotropic Angle Biasing of Photons," *Nuclear Science and Engineering,* **89** 118-130 (February 1985)

15. T. E. Booth, J. S. Hendricks, "Importance Estimation in Forward Monte Carlo Calculations," *Nuclear Technology/Fusion,* **5** (1) 90 (January 1984)

16. J. S. Hendricks, L. L. Carter, "Computational Benchmark for Neutron Penetration in Iron," *Nuclear Science and Engineering,* **77** 71-83 (1981)

17. C. R. Weisbin, P. D. Soran, J. S. Hendricks, "A New Procedure for the Determination of Neutron Multigroup Transfer Matrices," *Nuclear Science and Engineering,* **55** (3) (November 1974)

18. C. R. Weisbin, R. H. Augustson, J. S. Hendricks, A. E. Evans, G. D. Turner, K. D. Bohnel, "Nondestructive Assay of Power Reactor Fuel Assemblies," *Nuclear Technology*, **15** (3) 455 (September 1972)

Major Reports

1. C. N. Culbertson, J. S. Hendricks, "Assessment of MCNP4C Weight Windows," Los Alamos National Laboratory Report, LA-13668 (December 1999)

2. A. K. Hess, J. S. Hendricks, G. W. McKinney, "Verification of the MCNP Perturbation Correction Feature for Cross-Section Dependent Tallies," Los Alamos National Laboratory Report, LA-13520 (October 1998)

3. Jeffrey D. Shelton, John S. Hendricks, Guy P. Estes, "INRAD: Intrinsic Radiation MCNP," Los Alamos National Laboratory Report, LA-13358 (Official Use Only) (August 1997)

4. J. D. Densmore, G. W. McKinney, J. S. Hendricks, "Correction to the MCNP Perturbation Feature for Cross-Section Dependent Tallies," Los Alamos National Laboratory Report, LA-13374 (October 1997)

5. John S. Hendricks, John D. Court, "MCNP4B Verification and Validation," Los Alamos National Laboratory Report, LA-13181 (August 1996)

6. Hilary M. Abhold, John S. Hendricks, "MCNP Software Quality Assurance Plan," Los Alamos National Laboratory Report, LA-13138 (April 1996)

7. John S. Hendricks, Stephanie C. Frankle, John D. Court, "ENDF/B-VI Data for MCNP," Los Alamos National Laboratory Report, LA-12891 (December 1994)

8. John D. Court, John S. Hendricks, Stephanie C. Frankle, "MCNP ENDF/B-VI Validation: Infinite Media Comparisons of ENDF/B-VI and ENDF/B-V," Los Alamos National Laboratory Report, LA-12887 (December 1994)

9. John D. Court, Ronald C. Brockhoff, John S. Hendricks, "Lawrence Livermore Pulsed Sphere Benchmark Analysis of MCNP ENDF/B-VI," Los Alamos National Laboratory Report, LA-12885 (December 1994)

10. J. D. Court, J. S. Hendricks, "Benchmark Analysis of MCNP ENDF/B-VI Iron," Los Alamos National Laboratory Report, LA-12884 (December 1994)

11. Ronald C. Brockhoff, John S. Hendricks, "A New MCNP Test Set," Los Alamos National Laboratory Report, LA-12839 (September 1994)

12. John C. Wagner, Everett L. Redmond II, Scott P. Palmtag, and John S. Hendricks, "MCNP: Multigroup/Adjoint Capabilities." Los Alamos National Laboratory Report, LA-12704 (April 1994)

13. D. J. Whalen, D. A. Cardon, J. L. Uhle, J. S. Hendricks, "MCNP: Neutron Benchmark Problems," Los Alamos National Laboratory report, LA-12212 (November 1991)

14. D. J. Whalen, D. E. Hollowell, J. S. Hendricks, "MCNP: Photon Benchmark Problems," Los Alamos National Laboratory report, LA-12196 (September 1991)

15. J. S. Hendricks, R. E. Prael, "MCNP $S(\alpha,\beta)$ Detector Scheme," Los Alamos National Laboratory report, LA-11952 (October, 1990)

16. J. S. Hendricks, "Calculation of Cell Volumes and Surface Areas in MCNP," Los Alamos National Laboratory report, LA-8113-MS (January 1980)

17. J. S. Hendricks, L. L. Carter, "Computational Benchmark Problem for Deep Penetration in Iron," Los Alamos National Laboratory report, LA-8193-MS (January 1980)

18. C. R. Weisbin, P. D. Soran, R. E. Macfarlane, D. R. Harris, R. J. LaBauve, J. S. Hendricks, J. E. White, R. B. Kidman, "MINX: A Multigroup Interpretation of Nuclear X-sections," Los Alamos National Laboratory report, LA-6486-MS (ENDF-237) (September 1976)

Meeting Transactions

1. J. S. Hendricks, G. W. McKinney, L. J. Cox, "Monte Carlo Advances in the Eolus ASCI Project," NECDC2000, Oakland, CA (October 23-27,2000)

2. J. S. Hendricks, "New Monte Carlo Variance Reduction Capabilities on Meshes," NECDC2000, Oakland, CA (October 23-27,2000)

3. J. S. Hendricks, "Advances in MCNP4C," Radiation Protection for Our National Priorities Spokane, Washington, September 17 - 21, 2000 (LA-UR-00-2643)

4. J. S. Hendricks, "Point-and-Click Plotting with MCNP," Radiation Protection for Our National Priorities Spokane, Washington, September 17 - 21, 2000 (LA-UR-00-2642)

5. J. S. Hendricks, G. W. McKinney, L. J. Cox, "Monte Carlo Advances for the Eolus ASCI Project," PHYSOR2000 International Topical Meeting on Advances in Reactor Physics and Mathematics and Computation, Pittsburgh, PA (May 7-11, 2000)

6. J. S. Hendricks, C. N. Culbertson, "An Assessment of MCNP Weight Windows," PHYSOR2000 International Topical Meeting on Advances in Reactor Physics and Mathematics and Computation, Pittsburgh, PA (May 7-11, 2000)

7. K. J. Adams, T. E. Booth, J. F. Briesmeister, L. L. Carter, J. D. Court, L. J. Cox, J. A. Favorite, R. A. Forster, J. S. Hendricks, G. W. McKinney, R. E. Prael, "Present and Future Capabilities of MCNP," Fourth Topical Meeting on Industrial Radiation and Radioisotope Measurement Applications (IRRMA 99), Raleigh, NC, page 38 (October 3-7, 1999)

8. John S. Hendricks, Leland L. Carter, Gregg W. McKinney, "MCNP Perturbation Capability for Monte Carlo Criticality Calculations," Proceedings of the Sixth International Conference on Nuclear Criticality Safety, September 20-24, 1999, Palais des Congres, Versailles, France, Volume 1, pg 269-277 (1999)

9. H. G. Hughes, K. J. Adams, M. B. Chadwick, J. C. Comly, L. J. Cox, H. W. Egdorf, S. C. Frankle, J. S. Hendricks, R. C. Little, R. E. MacFarlane, S. G. Mashnik, R. E. Prael, L. S. Waters, M. C. White, P. G. Young, Jr., F. Gallmeier, E. C. Snow, "Recent Developments in MCNP and MCNPX," (LA-UR-99-5215) Proceedings of Mathematics and Computation, Reactor Physics, and Environmental Analysis in Nuclear Applications, Madrid, Spain (September 1999)

10. H. G. Hughes, K. J. Adams, M. B. Chadwick, J. C. Comly, L. J. Cox, H. W. Egdorf, S. C. Frankle, J. S. Hendricks, R. C. Little, R. E. MacFarlane, S. G. Mashnik, R. E. Prael, A. J. Sierk, L. S. Waters, M. C. White, P. G. Young, Jr., F. Gallmeier, E. C. Snow, "MCNPX for

Neutron-Proton Transport," Proceedings of Mathematics and Computation, Reactor Physics, and Environmental Analysis in Nuclear Applications, Madrid, Spain, Vol. 2, p. 939-948 (September 1999)

11. John S. Hendricks, Lawrence J. Cox, "Interactive Setup for ..." Nuclear Explosives Code Developers Conference, Las Vegas, NV, October 1998.

12. John S. Hendricks, Robert C. Little, Robert E. MacFarlane, Leland L. Carter, "Unresolved Resonance Probability Table Treatment for Neutron Transport," Nuclear Explosives Code Developers Conference, Las Vegas, NV, October 1998.

13. Gregg W. McKinney, Kenneth J. Adams, Judith F. Briesmeister, J. David Court, Lawrence J. Cox, R. Arthur Forster, John S. Hendricks, "... for the 21st Century," LA-CP-98-0320, Nuclear Explosives Code Developers Conference, Las Vegas, NV, October 1998.

14. Court, J. D., Hendricks, J. S., McKinney, G. W., "ASCI Monte Carlo Verification," LA-CP-98-0292, Nuclear Explosives Code Developers Conference, Las Vegas, NV, October 1998.

15. H. G. Hughes, K. J. Adams, M. B. Chadwick, J. C. Comly, L. J. Cox, H. W. Egdorf, S. C. Frankle, F. X. Gallmeier, J. S. Hendricks, R. C. Little, R. E. MacFarlane, R. E. Prael, E. C. Snow, L. S. Waters, P. G. Young, Jr., "Recent Developments in MCNPX," Topical Meeting on Nuclear Applications of Accelerator Technology, American Nuclear Society, 281, Gatlinburg, TN, Sept 20-23, 1998

16. H. G. Hughes, K. J. Adams, M. B. Chadwick, J. C. Comly, S. C. Frankle, J. S. Hendricks, R. C. Little, R. E. Prael, L. S. Waters, P. G. Young, "Status of the MCNP/LCS Merger Project,"1998 Radiation Protection and Shielding Division Topical Conference on Technologies for the New Century, Sheraton Music City, Nashville, TN, vol. I, p. 188 (April 19-23, 1998)

17. T. M. Evans, J. S. Hendricks, "An Enhanced Geometry-Independent Mesh Weight Window Generator for MCNP," 1998 Radiation Protection and Shielding Division Topical Conference on Technologies for the

New Century, Sheraton Music City, Nashville, TN, vol. I, p. 165 (April 19-23, 1998)

18. L. L. Carter, R. C. Little, J. S. Hendricks, "New Probability Table Treatment in MCNP for Unresolved Resonances," 1998 Radiation Protection and Shielding Division Topical Conference on Technologies for the New Century, Sheraton Music City, Nashville, TN, vol. II, p. 341 (April 19-23, 1998)

19. H. E. McLaughlin, J. S. Hendricks, "Performance of Scientific Computing Platforms Running MCNP4B," *Trans. Am. Nuc. Soc.,* **77** 183 (Nov 1997)

20. J. D. Densmore, J. S. Hendricks, G. W. McKinney, "MCNP Perturbation Corrections for k_{eff} Estimators," *Trans. Am. Nuc. Soc.,* **77** 209 (Nov 1997)

21. H. Grady Hughes, Kenneth J. Adams, Mark B. Chadwick, Jack C. Comly, Stephanie C. Frankle, John S. Hendricks, Robert C. Little, Richard E. Prael, Laurie S. Waters, Phillip G. Young, Jr., "The MCNP/LCS Merger Project," Proceedings of the Topical Meeting on Nuclear Applications of Accelerator Technology, American Nuclear Society, Albuquerque, NM (November 16 - 20, 1997)

22. J. S. Hendricks, "Features and Performance of MCNP4B," Joint International Conference on Mathematical Methods and Supercomputing for Nuclear Applications, Saratoga Springs, NY, Oct 5 - 9, 1997.

23. H. Grady Hughes, K. J. Adams, M. B. Chadwick, J. C. Comly, S. C. Frankle, J. S. Hendricks, R. C. Little, R. E. Prael, L. S. Waters, P. G. Young, Jr., "MCNPX - The LAHET/MCNP Code Merger," SARE-3, Simulation of Accelerator Radiation Environments, Tsukuba, Japan, May 7 - 9, 1997

24. H. G. Hughes, K. J. Adams, J. S. Hendricks, "Status and Future Development of MCNP," Proceedings of the training course on the use of MCNP in Radiation Protection and Dosimetry, Bologna, Italy, May 13-16, 1997. (LA-UR-97-1637)

25. John S. Hendricks, D. Kent Parsons, Gregory D. Spriggs, Robert D. Busch, "Comparison of Neutron Lifetimes as Predicted by MCNP and DANTSYS," *Trans. Am. Nuc. Soc.,* **76** 364 (June 1997)

26. Robert D. Busch, Gregory D. Spriggs, John S. Hendricks, "Definition of Neutron Lifespans and Neutron Lifetime in MCNP4B," *Trans. Am. Nuc. Soc.,* **76** 365 (June 1997)

27. Gregory D. Spriggs, Robert D. Busch, Kenneth J. Adams, D. Kent Parsons, Lester Petrie, John S. Hendricks, "On the Definition of Neutron Lifetimes in Multiplying and Non-Multiplying Systems," LA-UR-97-1073, Brazilian Meeting on Reactor Physics and Thermohydraulics, Pecos de Caldas Springs, MG Brazil (August 18-22, 1997)

28. Alan B. Meginnis, John S. Hendricks, Gregg W. McKinney, "Installation of MCNP on 64-Bit Parallel Computers," Proceedings, 1996 Topical Meeting on Radiation Protection and Shielding, April 21 - 25, 1996, No. Falmouth, MA, American Nuclear Society, p 953-958 (April 1996)

29. John S. Hendricks, "MCNP Directions," *Trans. Am. Nuc. Soc.,* **71** 396 (November 1994)

30. John S. Hendricks, Stephanie C. Frankle, John D. Court, "New Data for MCNP," *Trans. Am. Nuc. Soc.,* **71** 399 (November 1994)

31. John D. Court, John S. Hendricks, "MCNP ENDF/B-VI Iron Benchmark Calculations," *Trans. Am. Nuc. Soc.,* **71** 410 (November 1994)

32. John S. Hendricks, Gregg W. McKinney, Edward C. Snow, and R. Arthur Forster, "Advances in LANL Monte Carlo Codes," Nuclear Explosives Code Development Conference, Las Vegas (October, 1994)

33. John S. Hendricks. R. Arthur Forster, Patrick D. Soran, "MCNP: An Example of Dual-Use Code Technology," Nuclear Explosives Code Development Conference, Las Vegas (October, 1994)

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35. J. S. Hendricks and R. C. Brockhoff, "Performance of MCNP4A on Seven Computing Platforms," Proceedings 8th International Conference on Radiation Shielding, Arlington, Texas, 1169-1171, American Nuclear Society (April, 1994)

36. R. C. Brockhoff and J. S. Hendricks, "MCNP Analysis of the Livermore Pulsed Spheres with ENDF/B-VI," Proceedings 8th International Conference on Radiation Shielding, Arlington, Texas, 802 - 808, American Nuclear Society (April, 1994)

37. John S. Hendricks, Gregg W. McKinney, and R. Arthur Forster, "New Developments Enhancing MCNP for Criticality Safety," 1993 Topical Meeting on Physics and Methods in Criticality Safety, Nashville, Tennessee, September 19-23, 1993, American Nuclear Society 700186 (Sept. 1993)

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39. J. S. Hendricks, "The Monte Carlo Method: Towards a Better World with Computational Physics," LANL 50th Anniversary Seminar Series, (April 14, 1993)

40. J. S. Hendricks, "Monte Carlo Radiation Transport: A Revolution in Science," *Bulletin of the American Physical Society.* Joint Meeting of the American Physical Society and the American Association of Physics Teachers, April 1993, Washington, D. C., LA-UR-93-89 (April 12, 1993)

41. J. S. Hendricks, "Simulating Radiation Environments with MCNP," Proceedings of the Workshop on Simulating Accelerator Radiation Environments, January 11 - 15, 1993, Santa Fe, LA-12835-C, 101-105 (October 1994)

42. J. F. Briesmeister and J. S. Hendricks, "MCNP — New Focus, New Features, New Facelift," Nuclear Explosives Code Developer's Conference, 2-6 November 1992, Sunnyvale, Ca.; DOE (LLNL) (LA-CP-92-412)

43. John S. Hendricks, Daniel J. Whalen, David A. Cardon, Jennifer L. Uhle, "MCNP Neutron Benchmarks," *Trans. Am. Nuc. Soc.,* **65** 262 (1992)

44. J. S. Hendricks and J. F. Briesmeister, "Recent MCNP Developments," *Conference Record of the 1991 IEEE Nuclear Science Symposium and Medical Imaging Conference, 11/2 - 11/9/91, Santa Fe, NM*, **2**, 1042 - 1046 (1992)

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46. J. S. Hendricks and J. F. Briesmeister, "The MCNP4 Monte Carlo General-Purpose Radiation Transport Code," *Proceedings of the International Topical Meeting on Advances in Mathematics, Computations, and Reactor Physics, (American Nuclear Society),* **5**, 30.4 5-1 (April 1991)

47. J. S. Hendricks, "Random Number Stride in Monte Carlo Calculations," *Trans. Am. Nucl. Soc.,* **62** 283 (1990)

48. J. S. Hendricks and R. E. Prael, "Monte Carlo Next-Event Estimates from Thermal Collisions," *Trans. Am. Nucl. Soc.,* **62** 276 (1990)

49. R. S. Brown, Jr., J. S. Hendricks, "Implementation of Stratified Sampling for Monte Carlo Applications," *Trans. Am. Nucl. Soc.,* **54** 156 (June 1987)

50. J. S. Hendricks, T. E. Booth, "MCNP Variance Reduction Overview," Lecture Notes in Physics - 240, Monte Carlo Methods and Applications in Neutronics, Photonics and Statistical Physics, Proceedings, Cadarache Castle, France, April 22-26, 1985, Springer-Verlag, Heidelberg, ISBN 3 540 16070 1

51. S. N. Cramer, J. Gonnord, J. S. Hendricks,"Monte Carlo Techniques for Analyzing Deep Penetration Problems", Proceedings of the International Meeting on Advances in Nuclear Engineering Computational

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52. J. S. Hendricks, T. E. Booth, "Monte Carlo Sampling of Compton Photon Scattering off Moving Electrons," *Trans. Am. Nucl. Soc.,* **47** 226 (November 1984)

53. P. P. Whalen, J. S. Hendricks,"A Comparison of Little Boy Calculations and Measurements, An Overview," 29th Meeting Health Physics Society, Pergamon Press, N.Y., p. 19 (June 1984)

54. L. L. Carter, J. S. Hendricks, "Biasing Anisotropic Scattering Kernels for Deep-Penetration Monte Carlo Calculations",*Trans. Am. Nucl. Soc.,* **45** 603 (1983) (winner, best paper award)

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57. J. S. Hendricks, "Construction of Equiprobable Bins for Monte Carlo Calculations",*Trans. Am. Nucl. Soc.,* **35** 247 (November 1980)

58. G. P. Estes, J. S. Hendricks, "Integral Testing of Some ENDF/B-V Cross Sections",*Trans. Am. Nucl. Soc.,* **23** 679 (November 1979)

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X-Division Research Notes

1. J. Shelton, J. Hendricks, "Verification and QA of MCNP4B INRAD," Los Alamos National Laboratory Research Note, XTM:RN(OUO)-97-029 (July 30, 1997)

2. J. S. Hendricks, "Monte Carlo Lifetimes," Los Alamos National Laboratory Research Note, XTM:RN(U)-97-001 (July 30, 1997)

Other

1. G. D. Doolen, J. S. Hendricks, "Monte Carlo at Work," in From Cardinals to Chaos, Necia Grant Cooper, Editor, Cambridge University Press, New York (1989)

2. J. S. Hendricks, "MCNP Code Development and Documentation, Status Report: Los Alamos-EIR Co-operative Work in the Field of 'Nucleonics and Particle Transport in Fusion Reactors' for the period 7/84-6/86," compiled by D. J. Dudziak, J. Stepanek, EIR-Bericht Nr.619, Swiss Federal Institute for Reactor Research (March 1987)

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4. J. S. Hendricks, T. E. Hicks,"Safeguards and Nondestructive Assay of Reactor Fuel Assemblies," UCLA master's thesis (June 1972)