

Ernest Henry Page, Jr.

Abstraction and Associates
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Personal Data:

Born: 7 February 1965; Alexandria, Virginia.

EDUCATION:

Ph.D. Computer Science, Virginia Polytechnic Institute and State University, 1994.

M.S. Computer Science, Virginia Polytechnic Institute and State University, 1990.

B.S. Computer Science, Virginia Polytechnic Institute and State University, 1988.

FIELDS OF INTEREST:

Discrete event simulation, parallel and distributed systems.

CLEARANCES:

DISCO and NATO (SECRET)

Employment History:

President, Abstraction and Associates, LLC

(9/01 - Present)

Lead Scientist for RDECOM MATREX (01/03 - present)

Providing support to the U.S. Army Materiel Command (AMC) Research, Development and Engineering Command (RDECOM) Science and Technology Objective (STO), the Modeling Architecture for Technology, Research and Experimentation (MATREX). Duties of Lead Scientist include: support to MATREX Lead Architect in devising MATREX architectural principles; development and execution of studies in support of STO objectives; oversight of C3 Grid performance analysis.

Technical Advisor to the U.S. Army Model and Simulation Office (AMSO) (7/00 - present)

Providing technical guidance to the Director, AMSO, with respect to the development of Army model management policies and programs. Current duties include: programmatic support to major Army simulation systems, including WARSIM, OneSAF, Joint Virtual Battlespace, RDEC federation (combined as MATREX); defining the systems architecture concepts for the Simulation and Modeling for Acquisition, Requirements and Training (SMART) initiative; leading efforts to formulate and document Grand Challenges for M&S; and supporting efforts to document M&S best practices.

Member of the Technical Staff, The MITRE Corporation

(2/95 - 9/01)

Investigator for HLA Runtime Infrastructure Verifier project (11/99 - 7/00)

Funded through the Defense Modeling and Simulation Office (DMSO), the RTI Verifier project developed an environment to provide automated assistance in the verification of runtime infrastructures for the High Level Architecture (HLA) and used the environment to conduct verification studies for several commercially and government funded HLA runtime infrastructures.

Principal Investigator for research project in composable systems theory (10/98 - 9/99)

Funded under the DARPA Advanced Simulation Technology Thrust (ASTT), the objectives of *Theory and Practice in User-Composable Simulation Systems* involved identifying fundamental aspects and limitations of composability as a system objective. Tasks included: an evaluation of composability with respect to computability theory, notations for the specification and analysis of composable systems, mechanisms to describe and reason about emergent behavior, and the correlation of composability to other system objectives. URL: <http://www.thesimguy.com/Projects/comp/>

Investigator on OneSAF architecture specification and analysis effort (1/98 - 10/99)

Funded through the U.S. Army Simulation, Training and Instrumentation Command (STRICOM), the objectives of this effort were to specify and evaluate a software architecture for the next-generation Army semi-automated forces simulation, OneSAF. Tasks involved: (1) distillation and deconfliction of system requirements, (2) system specification and analysis through IDEF modeling, architecture description languages, and real-time temporal logics, and (3) prototyping and experimentation involving critical system functions, e.g. simulation executive, behavior architecture, etc. MITRE's role also involved coordination of related OneSAF research and development being undertaken at SAIC, Lockheed Martin and within the Defence Evaluation and Research Agency (DERA) in the UK.

Principal Investigator for research project in web-based simulation (10/96 - 1/99)

Led a MITRE Sponsored Research (MSR) effort entitled *Web-Based Simulation Support*. This two-year effort involved the examination of web-based technologies as distributed simulation infrastructure and evaluation of the modeling methodological impacts of web-based and web-enabled simulations. Accomplishments of the research include: initiation of the development of a Java-based High Level Architecture (HLA) runtime infrastructure, the establishment of a special interest group in distributed simulation within the Object Management Group (OMG), the development of a distributed version of the Simjava simulation language using Remote Method Invocation, and the integration of HLA capabilities within Digital Image Design's 3Dream gaming engine URL: <http://www.thesimguy.com/Projects/websim/>

Investigator and Task Leader on the Aggregate Level Simulation Protocol (ALSP) project (2/95 - 6/98)

Provided support in Systems Engineer role to the ALSP Joint Training Confederation (JTC). The JTC is comprised of up to 12 Service and Joint simulation systems, and is employed to support several large-scale Command-Post Exercises (CPXs) annually, in the United States, Europe and Asia. Activities in support of the ALSP project included: review and evaluation of JTC functional evolution designs, generation and review of JTC test plans, JTC test coordination and reporting, VV&A process development and execution, protocol maintenance and evolution, model specification maintenance and evolution, and exercise support. URL: <http://ms.ie.org/alsp>.

Co-author of DMSO VV&A Recommended Practices Guide

As a member of the Defense Modeling and Simulation Office (DMSO) Verification, Validation and Accreditation (VV&A) Technical Support Team, participated in the development of the guide.

Research Associate, Virginia Tech Systems Research Center (8/93 - 11/94)

Served as Investigator on *An Evaluation and Risk Assessment of the Technologies Required for A Multiwarfare Assessment and Research System*, (Richard E. Nance, Principle Investigator). Examined the modeling methodological implications of the proposed MARS architecture and advanced distributed simulation (ADS) techniques such as Distributed Interactive Simulation (DIS). Factors considered included methodological support for resolving underlying differences in: (1) model use (e.g. training vs. analysis), (2) time flow mechanisms, (3) conceptual frameworks, (4) levels of fidelity, (5) implementation languages, and (6) model objectives. The investigation also included an Objectives/Principles/Attributes assessment of MARS, a comparative evaluation of the languages C++ and MODSIM II with respect to the MARS objectives, and a technical risk assessment of DIS.

Computer Systems Administrator, Virginia Tech Systems Research Center (9/88 - 8/93)

Managed Systems Research Center computing facilities which included: VAX 11/785 running UNIX, SUN 4/330 SPARCserver running SunOS/Solaris, two Bridge CS/100 terminal servers, DECstation 5000 series, DEC VT-series and X-terminals, DEC lineprinter and Apple laserprinter under NeWSprint. Maintained day-to-day operations; e.g. mail, accounting, file system administration and backups, hardware/software installation and networking. Configured systems to permit running under a classified operating system.

Graduate Research Assistant, Virginia Tech (5/88 - 9/88; 1/90 - 8/90)

Investigator on IBM VISION Architecture project

Served on *Simulation Model Development Environment: Its Application to IBM's VISION Architecture*, (Osman Balci, Principal Investigator). Participated in the design of a simulation model specification language for a Visual Simulation Support Environment (VSSE). Constructed a compiler for the VSSE specification language using Lex and Yacc. Conducted a simulation study of the proposed IBM VISION architecture using a prototype of the VSSE.

Investigator on Model Development Environment project

Served on *Model Development Environments: Experimental Prototypes*, (Osman Balci, Principal Investigator; Richard E. Nance, Project Manager). Developed a model generator prototype for a Model Development Environment running on a SUN-3/160 platform. The prototype was constructed using C, SunView, and the INGRES relational database management system (EQUEL-C).

Teaching Experience:

Adjunct Faculty, Northern Virginia Community College, 2000.

Instructor, Radford University, 1993.

Instructor/Consultant, Southwest Virginia Governor's School, 1992.

Professional Activities:

HONORS, AWARDS AND CERTIFICATES:

- Association for Computing Machinery, Service Award, 1997, 2003.

CURRICULUM VITAE FOR ERNEST H. PAGE, JR.

- The MITRE Corporation
 - Corporate Author of the Month, July 1999.
 - Director's Distinguished Accomplishment Award, 1997.
- Modeling and Simulation Professional Certification Commission
 - Certified M&S Professional (Charter Member), 2002.
- Upsilon Pi Epsilon, Honor Society in the Computing Sciences, Inducted 1990.

PROFESSIONAL SOCIETIES:

- Association for Computing Machinery (ACM)
- Institute of Electrical and Electronics Engineers Computer Society (IEEE CS)
- Military Operations Research Society (MORS)
- Society for Computer Simulation (SCS)

SERVICE AND ADVISORY ROLES:

- ACM Special Interest Group on Simulation (SIGSIM)
 - Chairman, 1999-2001.
 - Vice Chairman, 1997-1999.
 - Secretary/Treasurer, 1995-1997.
- Defense Advanced Research Projects Agency (DARPA)
 - Reviewer for the Advanced Simulation Technology Thrust (ASTT), 1996.
- Defense Modeling and Simulation Office (DMSO)
 - Verification, Validation and Accreditation (VV&A) Technical Working Group, 1996-1998.
 - Verification, Validation and Accreditation (VV&A) Technical Support Team, 1996-1997.
 - High Level Architecture (HLA) Architecture Management Group (AMG), Test Working Group, 1995-1996.
- Headquarters, Department of the Army
 - Member of Army Materiel Command (AMC) acquisition program baseline breach audit team of WARSIM 2000, 2001.
 - Member of the OneSAF architecture advisory board, 2001.
- The MITRE Corporation
 - Leader of the MITRE Technology Area Team for Modeling, Simulation and Training, 1999 - 2001.
 - Information Systems and Technology Division Core Technical Area Coordinator for Distributed Systems, 1997-1999.
- National Science Foundation (NSF)
 - Reviewer for the Advanced Networking Infrastructure (ANI) program, 1999.

CURRICULUM VITAE FOR ERNEST H. PAGE, JR.

- Office of Naval Research (ONR)
 - Member of the Board of Visitors for on-site review of the Naval Surface Warfare Center Dahlgren Division (NSWCDD) Engineering of Complex Systems (ECS) Research Block, 1998.
- Society for Computer Simulation (SCS)
 - Director at Large, 2002 - present.
- Winter Simulation Conference (WSC)
 - Board of Directors, 2001 - present.

CONFERENCE KEYNOTE ADDRESSES:

- “Beyond Speedup: PADS, the HLA and Web-Based Simulation,” 13th Workshop on Parallel and Distributed Simulation, Atlanta, GA, 1-4 May 1999.

CONFERENCE CHAIRMANSHIP:

- Program Chairman (with A.L.M. McLean) of the 18th Workshop on Parallel and Distributed Simulation, Kufstein, Austria, 16-19 May 2004.
- Organizer (with A. Uhrmacher, R. Fujimoto and W. Lunceford) of the Dagstuhl Seminar on Grand Challenges for Modeling and Simulation, Dagstuhl, Germany, 26-30 August 2002.
- Program Chairman for the First International Conference on Grand Challenges for Modeling and Simulation, San Antonio, TX, 27-31 January 2002.
- Program Chairman for the 1999 SCS International Conference on Web-Based Modeling and Simulation, San Francisco, CA, 17-20 January 1999.

PROGRAM ORGANIZATION:

- Program Committee member for the 17th Workshop on Parallel and Distributed Simulation, San Diego, CA, 10-13 June 2003.
- Program Committee member for the 16th Workshop on Parallel and Distributed Simulation, Washington, DC, 12-15 May 2002.
- Program Committee member for the 2001 SCS International Conference on Web-Based Modeling and Simulation, Phoenix, AZ, 7-11 January 2001.
- Track Coordinator for Modeling Methodology at the 2000 Winter Simulation Conference, Orlando, FL, 10-13 December 2000.
- Program Committee member for the 2000 Workshop on Parallel and Distributed Simulation, Bologna, Italy, May 2000.
- Program Committee member for the AI, Simulation and Planning 2000 Conference, Tuscon, AZ, 6-8 March 2000.

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- Program Committee member for the 2000 SCS International Conference on Web-Based Modeling and Simulation, San Diego, CA, 23-27 January 2000.
- Track Coordinator (with Jeffrey M. Opper) for the Military Applications track at the 1999 Winter Simulation Conference, Phoenix, AZ, 5-8 December 1999.
- Program Committee member for the Simulation Methodology track within the 1999 SCS European Simulation Multiconference, Warsaw, Poland, 1-5 June 1999.
- Program Committee member for the Validation Methodologies track within the 1999 SCS European Simulation Multiconference, Warsaw, Poland, 1-5 June 1999.
- Program Committee member for the SPIE AeroSense Symposium, Conference on Enabling Technology for Simulation Science II, Orlando, FL, 13-17 April 1998.
- Program Committee member for the 1998 SCS International Conference on Web-Based Modeling and Simulation, San Diego, CA, 11-14 January 1998.
- Planning and Review Panel member for the Testing Forum at the 1997 Fall Simulation Interoperability Workshop, Orlando, FL, 8-12 September 1997.
- Planning and Review Panel member for the Testing Forum at the 1997 Spring Simulation Interoperability Workshop, Orlando, FL, 3-6 March 1997.

CHAIR POSITIONS – SESSIONS AND PANELS:

- Session Chairman for “Simulation-Based Acquisition” at the 2001 Winter Simulation Conference, Washington, DC, 9-12 December 2001.
- Panel Session Moderator for “Strategic Directions in Simulation Research,” at the 1999 Winter Simulation Conference, Phoenix, AZ, 5-8 December 1999.
- Session Chairman for “Focus Paper on Distributed Simulation,” at the 1999 Winter Simulation Conference, Phoenix, AZ, 5-8 December 1999.
- Session Chairman (with Steven D. Farr) for “World Wide Web-Based Simulation,” at the SPIE AeroSense Symposium, Conference on Enabling Technology for Simulation Science II, Orlando, FL, 13-17 April 1998.
- Panel Session Moderator for “The Modeling Methodological Impacts of Web-Based Simulation,” at the 1998 SCS International Conference on Web-Based Modeling and Simulation, San Diego, CA, 11-14 January 1998.
- Session Chairman for “Advances in Parallel and Distributed Simulation,” at the 1997 Winter Simulation Conference, Atlanta, GA, 7-10 December 1997.
- Session Chairman for “VV&A Session 1” at the 1997 Summer Computer Simulation Conference, Arlington, VA, 13-17 July 1997.
- Session Chairman for “Visual Object-Oriented Simulation Environments,” at the 1995 Winter Simulation Conference, Arlington, VA, 3-6 December 1995.

INVITED PRESENTATIONS:

- “Thoughts on Science and Military Simulation,” given at the SimScience Workshop, National Defense University, Washington, DC, 4-6 June 2002.
- “The ALSP Joint Training Confederation – A Case Study of Federation Testing and VV&A,” given to the Computer Science Graduate Colloquium, Old Dominion University, 21 November 1997.
- “Advanced Distributed Simulation through the Aggregate Level Simulation Protocol,” given to the Virginia Tech Graduate Seminar, Department of Computer Science, 8 November 1995.
- “Simulation Model Specification: On the Role of Model Representation in the Model-Centered Sciences,” given to the ORSA Computer Science Technical Section Conference, Williamsburg, VA, 5 January 1994.

EDITORIAL ACTIVITIES:

- Guest Editor (with W. Lunceford) *Simulation*, Transactions of the Society for Computer Simulation International, Special Issue on Grand Challenges in Modeling and Simulation, forthcoming 2004.
- Guest Editor (with A.G. Bruzzone and A. Uhrmacher), *Future Generation Computer Systems*, Special Section: Best of Websim99, **17**(5), March 2001.
- Guest Editor, *ACM Transactions on Modeling and Computer Simulation*, Special Issue on Web-Based Modeling and Simulation, **10**(1), January 2000.
- Area Editor (Military Applications), *Simulation*, appointed 2000.
- Associate Editor, *ACM Transactions on Modeling and Computer Simulation*, appointed 1999.
- Associate Editor, *IEEE Transactions on Systems, Man and Cybernetics*, 2000-2003.
- Reviewer for *ACM Computing Reviews*, 1994 - 2003.
- Referee for: ACM SIGMetrics and Performance; *ACM Transactions on Modeling and Computer Simulation*; Workshop on Parallel and Distributed Simulation; *Annals of Operations Research*; Distributed Simulation Symposium; International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems; *IIE Transactions*; *Journal of Parallel and Distributed Computing*; *Transactions of the Society for Computer Simulation*; Winter Simulation Conference.

Publications:

BOOKS AND MONOGRAPHS:

1. Wendell H. Lunceford and Ernest H. Page, Editors. *Proceedings of the First International Conference on Grand Challenges for Modeling and Simulation*, 27-31 January 2002, San Antonio, TX, 103 pages.
2. Agostino G. Bruzzone, Adelinde Uhrmacher and Ernest H. Page, Editors. *Proceedings of the 1999 International Conference on Web-Based Modeling and Simulation*, SCS Simulation Series **31**(3), 17-20 January 1999, San Francisco, CA, 255 pages.

REFEREED JOURNALS:

1. Ernest H. Page and Marc Abrams. "Simulation Model Development and Analysis in UNITY," *Annals of Operations Research*, **104**, pp. 181-212, April 2002.
2. Ernest H. Page and Jeffrey M. Opper. "Investigating the Application of Web-Based Simulation Principles within the Architecture for a Next-Generation Computer Generated Forces Model," *Future Generation Computer Systems*, **17**(2), pp. 159-169, Elsevier Science Publishing, 2000.
3. Ernest H. Page, Arnold Buss, Paul A. Fishwick, Kevin J. Healy, Richard E. Nance and Ray J. Paul. "Web-Based Simulation: Revolution or Evolution?" *ACM Transactions on Modeling and Computer Simulation*, **10**(1), pp. 3-17, January 2000.
4. Richard E. Nance, C. Michael Overstreet and Ernest H. Page. "Redundancy in Model Specifications for Discrete Event Simulation," *ACM Transactions on Modeling and Computer Simulation*, **9**(3), pp. 254-281, July 1999.
5. Ernest H. Page and Richard E. Nance. "Incorporating Support for Model Execution within the Condition Specification," *Transactions of the Society for Computer Simulation*, **16**(2), pp. 47-62, June 1999.
6. Ernest H. Page, Bradford S. Canova and John A. Tufarolo. "A Case Study of Verification, Validation and Accreditation for Advanced Distributed Simulation," *ACM Transactions on Modeling and Computer Simulation*, **7**(3), pp. 393-424, July 1997.
7. Ernest H. Page. Book Review, *ACM Transactions on Modeling and Computer Simulation*, **4**(4), pp. 368-369, October 1994.
8. Ernest H. Page. "In Defense of Discrete Event Simulation," (Technical Correspondence), *ACM Transactions on Modeling and Computer Simulation*, **3**(4), pp. 281-286, October 1993.

REFEREED PROCEEDINGS:

1. Ernest H. Page and Jeffrey M. Opper. "Observations on the Complexity of Composable Simulation," *Proceedings of the 1999 Winter Simulation Conference*, pp. 553-560, Phoenix, AZ, 5-8 December 1999.
2. Richard E. Nance, C. Michael Overstreet and Ernest H. Page. "Redundancy in Model Representation: A Blessing or a Curse?" In: *Proceedings of the 1996 Winter Simulation Conference*, pp. 701-707, Coronado, CA, 8-11 December 1996.
3. John A. Tufarolo and Ernest H. Page. "Evolving the VV&A Process for the ALSP Joint Training Confederation," In: *Proceedings of the 1996 Winter Simulation Conference*, pp. 952-958, Coronado, CA, 8-11 December 1996.
4. Richard M. Weatherly, Annette L. Wilson, Bradford S. Canova, Ernest H. Page, Anita A. Zabek and Mary C. Fischer. "Advanced Distributed Simulation Simulation through the Aggregate Level Simulation Protocol," In: *Proceedings of the 29th Hawaii International Conference on System Sciences*, Volume 1, pp. 407-415, Wailea, Hawaii, 3-6 January 1996.
5. C. Michael Overstreet, Ernest H. Page, and Richard E. Nance. "Model Diagnosis Using the Condition Specification: From Conceptualization to Implementation," In: *Proceedings of the 1994 Winter Simulation Conference*, pp. 566-573, Orlando, Florida, 12-15 December 1994.
6. Ernest H. Page and Richard E. Nance. "Parallel Discrete Event Simulation: A Modeling Methodological Perspective," In: *Proceedings of the ACM/IEEE/SCS 8th Workshop on Parallel and Distributed Simulation*, pp. 88-93, Edinburgh, Scotland, 6-8 July 1994.

CURRICULUM VITAE FOR ERNEST H. PAGE, JR.

7. Marc Abrams, Ernest H. Page and Richard E. Nance. "Linking Simulation Model Specification and Parallel Execution Through UNITY," In: *Proceedings of the 1991 Winter Simulation Conference*, pp. 223-232, Phoenix, Arizona, 8-11 December 1991.
8. Marc Abrams, Ernest H. Page and Richard E. Nance. "Simulation Program Development by Stepwise Refinement in UNITY," *Proceedings of the 1991 Winter Simulation Conference*, pp. 233-242, Phoenix, Arizona, 8-11 December 1991.
9. Osman Balci, Richard E. Nance, E. Joseph Derrick, Ernest H. Page and John L. Bishop. "Model Generation Issues in a Simulation Support Environment," *Proceedings of the 1990 Winter Simulation Conference*, pp. 257-263, New Orleans, Louisiana, 9-12 December 1990.

INVITED PAPERS:

1. Jerry Banks, Joseph C. Hagan, Peter Lendermann, Charles McLean, Ernest H. Page, C. Dennis Pegden, Onur Ulgen, James R. Wilson, "The Future of the Simulation Industry," To appear in: *Proceedings of the 2003 Winter Simulation Conference*, New Orleans, LA, 7-10 December 2003.
2. Ernest H. Page and Wendell H. Lunceford. "Architectural Principles for the U.S. Army's Simulation and Modeling for Acquisition, Requirements and Training Initiative," In: *Proceedings of the 2001 Winter Simulation Conference*, pp. 767-770, Arlington, VA, 9-12 December 2001.
3. Ernest H. Page, David M. Nicol, Osman Balci, Richard M. Fujimoto, Paul A. Fishwick, Pierre L'Ecuyer and Roger Smith. "Strategic Directions in Simulation Research", In: *Proceedings of the 1999 Winter Simulation Conference*, pp. 1509-1520, Phoenix, AZ, 5-8 December 1999.
4. Ernest H. Page. "Beyond Speedup: PADS, the HLA and Web-Based Simulation" In: *Proceedings of the 13th Workshop on Parallel and Distributed Simulation*, R.M. Fujimoto and S. Turner, Eds., pp. 2-9, Atlanta, GA, 1-4 May, 1999.
5. Ernest H. Page. "The Rise of Web-Based Simulation: Implications for the High Level Architecture," In: *Proceedings of the 1998 Winter Simulation Conference*, pp. 1663-1668, Washington, DC, 13-16 December 1998.
6. Ernest H. Page and Roger Smith. "Introduction to Simulation for Training: A Guide for Discrete Event Simulationists," In: *Proceedings of the 1998 Winter Simulation Conference*, pp. 53-60, Washington, DC, 13-16 December 1998.
7. Ernest H. Page, Arnold Buss, Paul A. Fishwick, Kevin J. Healy, Richard E. Nance and Ray J. Paul. "The Modeling Methodological Impacts of Web-Based Simulation," In: *Proceedings of the 1998 SCS International Conference on Web-Based Modeling and Simulation*, pp. 123-128, San Diego, CA, 11-14 January 1998.
8. Ernest H. Page, Robert L. Moose and Sean P. Griffin. "Web-Based Simulation in Simjava using Remote Method Invocation," In: *Proceedings of the 1997 Winter Simulation Conference*, pp. 468-474, Atlanta, GA, 7-10 December 1997.
9. Ernest H. Page and William E. Babineau. "The ALSP Joint Training Confederation – A Case Study of Federation Testing," In: *Proceedings of the 1997 Fall Simulation Interoperability Workshop*, pp. 377-386, Orlando, FL, 8-12 September 1997.

UNREFEREED PUBLICATIONS:

1. Ernest H. Page. "On Software and Systems Architecture – Toward an Architecture for SMART", *Simulation Technology Magazine*, 4(2), Simulation Interoperability Standards Organization, Orlando, FL, January 2001.

CURRICULUM VITAE FOR ERNEST H. PAGE, JR.

2. Ernest H. Page. "Web-Based Simulation Technology," *SISO News*, **1**(1), Simulation Interoperability Standards Organization, Orlando, FL, September 1998.
3. Ernest H. Page. "Web-Based Simulation," *The Edge*, The MITRE Advanced Technology Newsletter, The MITRE Corporation, McLean, VA, August 1998.
4. Ernest H. Page and Richard M. Weatherly. "Advanced Distributed Simulation: It's About Time, and State," *The Technology Track*, **1**(2), Division W150 Newsletter, The MITRE Corporation, McLean, VA, April 1998.
5. Ernest H. Page, Sean P. Griffin and S. Lynn Rother. "Providing Conceptual Framework Support for Distributed Web-Based Simulation within the High Level Architecture," In: *Proceedings of SPIE: Enabling Technology for Simulation Science II*, pp. 287-292, Orlando, FL, 13-17 April 1998.
6. David Prochnow, Ernest H. Page and Bryan Youmans. "Development of a Federation Management Tool: Implications for HLA," In: *Proceedings of the 1998 Spring Simulation Interoperability Workshop*, pp. 589-597, Orlando, FL, 9-13 March 1998.
7. Ernest H. Page. "Zero Lookahead in a Distributed Time-Stepped Simulation," *Simulation Digest*, **26**(2), pp. 4-13, September 1997.
8. Sean P. Griffin, Ernest H. Page, C. Zachary Furness and Mary C. Fischer. "Providing Uninterrupted Training to the Joint Training Confederation (JTC) Audience During Transition to the High Level Architecture (HLA)," In: *Proceedings of the 1997 Simulation Technology and Training Conference*, pp. 197-201, Canberra, Australia, 17-20 March 1997. Reprinted in: *Proceedings of the 1997 Fall Simulation Interoperability Workshop*, pp. 887-893, Orlando, FL, 8-12 September 1997.
9. David Prochnow, Ernest H. Page and Mary C. Fischer. "Management of the Joint Training Confederation Family of Specifications," In: *Proceedings of the 1997 Spring Simulation Interoperability Workshop*, Orlando, Florida, 3-6 March 1997.
10. Defense Modeling and Simulation Office (DMSO). *Department of Defense Verification, Validation and Accreditation (VV&A) Recommended Practices Guide*, (Osman Balci, Priscilla Glasow, Paul Muessig, Ernest H. Page, Jim Sikora, Susan Solick and Simone Youngblood, Eds.) Alexandria, VA, November 1996.
11. Ernest H. Page. "The Condition Specification: Revisiting its Role Within a Hierarchy of Simulation Model Specifications," *Simulation Digest*, SIGSIM **22**(3) (TCSIM **35**), pp. 11-33, Spring 1993.
12. Ernest H. Page and Richard E. Nance. "Model Generators: An Example of Evolutionary Prototyping," In: *Proceedings of the 19th Annual Virginia Computer Users Conference*, pp. 19-28, Blacksburg, Virginia, 8-10 September 1989.

TECHNICAL REPORTS AND WORKING PAPERS:

1. Ernest H. Page. "Primer for the Development of Journal Articles in Simulation," U.S. Army Model and Simulation Office, Washington, D.C., January 2003.
2. Ernest H. Page. "Thoughts on Science and Military Simulation," SimScience Workshop, National Defense University, Washington, DC, 4-6 June 2002.
3. William E. Babineau and Ernest H. Page. "ALSP Confederation Test Report," MITRE Technical Report 970000040, The MITRE Corporation, McLean, VA, May 1997.

CURRICULUM VITAE FOR ERNEST H. PAGE, JR.

4. Charles V. Duncan, Laura E. Feinerman, C. Zachary Furness, Sean P. Griffin, Annette M. Janeway, Ernest H. Page, David Prochnow and Steven S. Specht. "ALSP Joint Training Confederation Annual Report," MITRE Technical Report 97W0000015, The MITRE Corporation, McLean, VA, February 1997.
5. John A. Tufarolo and Ernest H. Page. "ALSP Confederation Test Report," MITRE Informal Report, The MITRE Corporation, McLean, VA, July 1996.
6. Ernest H. Page. "Commentary and Response to the SMART Analysis of ALSP VV&A Methodology and Practice," MITRE Informal Report, The MITRE Corporation, McLean, VA, November 1995.
7. John A. Tufarolo and Ernest H. Page. "ALSP Joint Training Confederation Accreditation Report," MITRE Informal Report, The MITRE Corporation, McLean, VA, May 1995.
8. Richard E. Nance and Ernest H. Page. "Evaluation and Assessment of the Technologies Required for a Multiwarfare Assessment and Research System," Technical Report SRC-94-011, Systems Research Center, Virginia Tech, Blacksburg, VA, December 1994.
9. Ernest H. Page. *Simulation Modeling Methodology: Principles and Etiology of Decision Support*, Ph.D. Thesis, Department of Computer Science, Virginia Tech, Blacksburg, VA, September 1994. (Advisor: Richard E. Nance.)
10. Richard E. Nance and Ernest H. Page. "Objectives/Principles/Attributes Assessment of MARS," Status Report, Systems Research Center, Virginia Tech, Blacksburg, VA, October 1994.
11. Richard E. Nance and Ernest H. Page. "Defining and Evaluating the Expectations and Objectives for MARS," Technical Report SRC-94-007, Systems Research Center, Virginia Tech, Blacksburg, VA, May 1994.
12. Ernest H. Page and Richard E. Nance. "Simulation Model Specification: On the Role of Model Representation in the Model-Centered Sciences," Technical Report SRC-94-002 (TR-94-04), Systems Research Center and Department of Computer Science, Virginia Tech, Blacksburg, VA, January 1994.
13. Marc Abrams and Ernest H. Page. "Formally Reasoning About and Automatically Generating Sequential and Parallel Simulations," Technical Report TR-92-55, Virginia Tech, Department of Computer Science, Blacksburg, VA, March 1992.
14. Ernest H. Page. *Model Generators: Prototyping Simulation Model Definition, Specification and Documentation Under the Conical Methodology*, M.S. Thesis, Department of Computer Science, Virginia Tech, Blacksburg, VA, August 1990. (Advisor: Richard E. Nance.)