

John A. Hamilton, Jr. (Nickname: Drew)

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EDUCATION

- PhD 1996 Computer Science, Texas A&M University (full scholarship)
- MS 1990 Computer Science, Vanderbilt University (full scholarship)
- MS 1987 Systems Management (Information Systems), Univ. of Southern California
- BA 1979 Journalism/Public Relations, Texas Tech University

EXPERIENCE AND EMPLOYMENT RECORD

- 2010 – present: Alumni Professor, Computer Science & Software Engineering, Auburn University
- 2009 -2010: Professor, Computer Science & Software Engineering, Auburn University
- 2001-2009: Associate Professor (w/tenure 2006), Computer Science & Software Engineering, Auburn University
- 1998-2001: Director, Joint Forces Program Office, Space and Naval Warfare Systems Command / Visiting Associate Professor, US Naval Postgraduate School
- 1996-1998: Research Director & Assistant Professor, Electrical Engineering & Computer Science, United States Military Academy
- 1997 (Jan-Jul): Director, Ada Joint Program Office, Defense Information Systems Agency
- 1993: Chief, Officer Training, US Army Computer Science School
- 1992: Chief, Software Engineering Branch, US Army Computer Science School
- 1979-88: US Army Field Artillery Command & Staff assignments

RESEARCH INTEREST SUMMARY

Information Assurance, Computer Security, Simulation of Computer Networks, System Design to prevent Denial of Service attacks, Command and Control Interoperability, Command and Control Architecture, Software Architectures, Information Assurance Architectures

RESEARCH EXPERIENCE RELEVANT TO DEPT. OF DEFENSE

- US Army School Trained Nuclear/Chemical Target Analyst (ASI 5H)
- Led Auburn’s successful efforts to be certified as a National Security Agency Center of Academic Excellence in Information Assurance (2003), renewed (2006)
- Coached Auburn’s Penetration Red Team which took second place at Redstone Arsenal’s 2004 Digital Combat Exercise
- Directed DOD SYSCOM command and control interoperability office with an emphasis on security implications of C2 interoperability (JFPO Director, 1998-2001).

HONORS AND AWARDS

- SCS Presidential Service Award, 29 October 2010.
- Alumni Professorship endowed by the Auburn Alumni Association, 2010 – 2015.

- 2009 Curriculum Award, Committee on National Security Systems and the National Security Agency, “Information Assurance Risk Analysis” CNSS 4016.
- Joint Appointment AU Department of Management, 2009 – 2013.
- SCS Distinguished Service Award, 16 June 2008.
- Responsible for Auburn’s efforts to be competitively designated as a Center of Academic Excellence in Information Assurance Research for five years by the National Security Agency, 2008 – 2013.
- 2008 Best Paper Award, Amer*, S.H., Hamilton, J.A., Jr. (30%), *Understanding Security Architecture*, 2008 SCS/ACM DOD Architecture Framework Modeling, Spring Simulation Multiconference, Ottawa, Ontario, 13 – 17 April, 2008.
- 2008 Outstanding Conference Contribution Award, SCS/ACM Spring Simulation Multiconference, Ottawa, Ontario, 13 – 17 April, 2008.
- 2007 Best Paper Award, Richardson*, K. P., Hamilton, J.A., Jr. (30%), Carlisle, M.C., *A Performance Analysis of the SPRiNG Protocol Through Simulation*, 2007 SCS/ACM Simulation Software Security Symposium, Spring Simulation Multiconference, Norfolk, Va., 25 – 29 March, 2007.
- 2007 Elected Senior Member of the ACM.
- 2006 named to Who’s Who in Engineering Education, American Society of Engineering Education
- 2006 Curriculum Award, Committee on National Security Systems and the National Security Agency, “Senior System Managers” (for information assurance) CNSS 4012
- 2006 Curriculum Award, Committee on National Security Systems and the National Security Agency, “System Administrators” (for information assurance) CNSS 4013, beginning, intermediate and advanced levels
- 2006 Curriculum Award, Committee on National Security Systems and the National Security Agency, “Training Standard for Information Systems Security Professionals” NSTISSI 4011
- Responsible for Auburn’s efforts to be competitively re-designated as a Center of Academic Excellence by the National Security Agency, 2006
- 2005 Letter of Appreciation, Colonel M.S. Bohn, USMC, Director, US Marine Corps Operational Test and Evaluation Activity
- 2004 Outstanding CSSE Faculty
- 2004 Auburn Engineering Senior Research Award for Excellence
- 2004 Letter of Appreciation, Ms. Tara Ragan, Director of Software Engineering, Space & Missile Defense Command
- Responsible for Auburn’s efforts to be competitively designated as a Center of Academic Excellence by the National Security Agency, 2003
- 2003 Elected Senior Member of the IEEE
- 2002 Curriculum Award, Committee on National Security Systems and the National Security Agency, “Training Standard for Information Systems Security Professionals” NSTISSI 4011
- 2002 Curriculum Award, Committee on National Security Systems and the National Security Agency, “Designated Approving Authority” (for information security) NSTISSI 4012
- Auburn University Alumni Council, College of Engineering, \$20,000.00 Fellowship, 2002

PROFESSIONAL ASSOCIATIONS

- Society for Modeling & Computer Simulation International (Senior Member)
 - Society Immediate Past President 2009 - 2011
 - Society President 2006 - 2009

- Society Senior Vice President 2004 - 2006
 - Society Secretary 2002 - 2004
- Institute of Electrical and Electronics Engineers (Senior Member)
 - IEEE Computer Society
- Program Committee, 2001 – present IEEE, Int. Workshop on Rapid System Prototyping
- Program Committee, 2006 – present IEEE
- Association for Computing Machinery
 - Chair, 2009 – present, Special Interest Group Simulation (SIGSIM)
 - Vice-Chair, 2007 – 2009, Special Interest Group Simulation (SIGSIM)
 - Secretary-Treasurer, 2004 – 2007, Special Interest Group Simulation (SIGSIM)
- Conference Committee, Simulation Interoperability Standards Organization (SISO) 2004 – 2006.
- Vice Chair, Professional Development Committee, Alabama Modeling and Simulation Council 2004 – 2006.
- Chairman, Auburn University Council of the Modeling and Simulation Network 2003 – present.
- Elected, Board of Directors, Alabama Modeling and Simulation Council (2006 – present).
- Life Member, Phi Kappa Phi (National Honor Society)
- Member, Upsilon Pi Epsilon (National Honor Computer Science Fraternity)
- Member, Phi Rho Pi (National Honor Speech Fraternity)
- Alumni, National Society of Scabbard & Blade
- Graduated with Distinction, Naval War College
- Life Member, Naval War College Foundation
- Life Member, Disabled American Veterans
- Life Member, Auburn Alumni Association
- Life Member, New Mexico Military Institute Alumni Association
- Life Member, Military Officer Association of America
- US Army Forces Command Fourth Estate Award for Outstanding Military Journalism

EDITOR/REVIEWER

- Associate Editor, Simulation: Transactions of the Society for Modeling & Simulation, International, 2008 – present.
- Consulting Editor, *Journal of Defense Modeling and Simulation*, 2003 – present.
- Member, Editorial Board, Crosstalk: The Journal of Defense Software Engineering, 2006 – present.
- Referee, *Simulation Journal*, 1999 – 2001.
- Reviewer, Software Technology Conference, 1994-2000.
- Referee, Special Interest Group on Computer Science Education, 1993-1996.

CONFERENCE LEADERSHIP

- Program Committee, IEEE Information Assurance Workshop, 2006 – 2008
- Program Committee, IEEE Rapid Systems Prototyping Workshop, 2000 – present.
- Conference Chairman, 2006 Spring Simulation Multiconference, Huntsville, Ala.
- Conference Chairman, 2005 Spring Simulation Multiconference, San Diego, Calif.
- Conference Chairman, 2004 Adv. Simulation Technologies Conference, Washington, D.C.
- Conference Vice-Chairman, 2003 Adv. Simulation Technologies Conference, Orlando, Fla.
- Vice-Chair 2003 SE Section (Software Engineering) American Society for Engineering

Education, Macon, Ga.

- Conference Committee, 2001 Conference on Software Engineering and Training Symposium, Charlotte, N.C.
- Conference Chairman, 1999 Ada Software Engineering Education Team Conference, US Air Force Academy.
- Conference Chairman, 1998 Ada Software Engineering Education Team Conference, US Naval Postgraduate School.
- Conference Committee, 1997 Tri-Ada Conference, St. Louis, Mo.