

# TERRY C. VICKERS BENZEL

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Security Clearance: TS/SCI

## EDUCATION

Executive Program in Management, University of California, Los Angeles, 1996

M.A., Mathematics and Computer Science, Boston University, 1982

B.A., Mathematics and Computer Science, Boston University, 1981

## PROFESSIONAL EXPERIENCE

### University of Southern California, Information Sciences Institute, Marina del Rey, CA

#### Associate Director Information Sciences Institute – November 2022 – present

- Serve as a member of the executive leadership broadly across the Institute, one of three Associate Directors. Leadership focuses on culture, community, and communication. Stand up, chair, and oversee committees including Diversity Equity and Inclusion, Mentoring Program, ISI Fellow Program.

#### Director, Networking and Cybersecurity Division September 2017 - present

- As the Director of the USC Information Sciences Institute's [Network and Cybersecurity Division](#), I empower a dynamic team of 70 researchers, faculty, students, and support staff as they pursue innovative research in the analysis, measurement, and defense of internet network systems, research, methods and infrastructure for cyber experimentation, modeling human behavior for cybersecurity and social simulation, and seek novel approaches to analyze vulnerabilities in complex systems. The prevalence and interdependence of cybersecurity, networking, and social systems inform our research and development agenda as the field adapts to the changes in cyberspace today and in the future.

Lead research efforts, responsible for the technical development of research projects. PI for DETER Project ([www.deter-project.org](http://www.deter-project.org)), and Cyber Security Experimentation of the Future. Provide management for all aspects of 70-person technical research division. Develop budgets and financial analysis for projects and divisions. Act as a spokesperson in representing projects to funding agencies and in matters of technological achievement in a given area. Oversee hiring and strategic direction for the division. Participate in the Institute Directors Council. Apply computer science principles and concepts in setting research directions, and the planning, coordination, and execution of research objectives. Contribute to state-of-the-art technology and theories. Solve a wide range of research problems in creative and effective ways. Maintains current knowledge of the state of completed and ongoing research in relevant areas. Recruit and develop research staff. Review and prepare management reports for clients. Develop funding sources and originate research proposals for the purpose of obtaining funds to support leading-edge research.

Research Scientist, Marshall School of Business, September 2005 - 2010

- Researcher at the Institute for Critical Information Infrastructure Protection (ICIIP), an Organized Research Unit and Center of Excellence at the Marshall School. Responsible for helping to develop Systemic Security Management as an open source body of work and developing public/private partnerships in information security research. Research focuses on establishing collaborative efforts between business management, engineering and technology in order to close the gap between current corporate cyber security risk profiles and what is needed to protect the nation's critical information infrastructure.

Deputy Director, Computer Networks Division, June 2005 - August 2017

- Led research efforts, was responsible for the technical development of research projects. Served as PI for DHS-funded DETER Project ([www.deter-project.org](http://www.deter-project.org)), DARPA-funded EdgeLab project, and NSF-funded Cyber Security Experimentation of the Future project. Was co-team lead for White House Smart America Smart Energy Team. Developed budgets and financial analysis for projects and divisions.

Assistant Director for Special Projects, September 2003 - June 2005

- Was responsible for business development, technology transfer and special projects with industrial and academic partners. Developed information security research programs for ISI. Served as Technical Committee Chair for the Cyber Defense Technology Experimental Research (DETER) testbed and associated Evaluation Methods for Internet Security Technology (EMIST) research projects, jointly funded by NSF and DHS. The combined project developed an experimental infrastructure network and scientifically rigorous testing frameworks and methodologies to support the development and demonstration of next-generation information security technologies for cyber defense.

**University of California, Berkeley, Berkeley, CA**

Special Assistant for Networking and Security, Center for Information Technology Research In the Interest of Society (CITRIS), March 2003 - September 2003

- Was responsible for business development, technology transfer and special projects with industrial and academic partners. Developed Networking and Security research programs for CITRIS. Participated in development of proposal for NSF S&T Center, Team for Research in Ubiquitous Secure Technology (TRUST).

**McAfee - Network Associates, Inc., Los Angeles, CA**

Vice President, Advanced Security Research & Director, McAfee/NAI Labs, 1999 - 2003

- Managed and directed all aspects of advanced computer security research laboratory with over 100 professionals and staff (30% with PhDs) who perform research for the United States government, including the Defense Advanced Research Projects Agency (DARPA), Air Force, Army, and multiple US intelligence agencies, as well as several major commercial clients in high technology. As Director, responsibilities spanned strategic direction & planning, establishing research agenda, and divisional operations management. Key activities encompassed leadership on government RFP development, oversight of professional technical research, staffing, marketing/public relations with clients, annual budgeting and cost control.

- Managed growth of NAI Labs from \$12M in annual revenue in 2000 to \$17M annual revenue in 2001 and 2002. Developed new government customers and diversified revenue sources to capture additional commercial organizations including Microsoft and the Boeing Corporation.
- Introduced initiatives for increased focus on technology transfer through emerging technology, custom development solutions and technical outreach, resulting in strategic focus and R&D support across all McAfee-NAI Business Units.
- Initiated and provided extensive leadership in establishing new partnerships between industry and government in computer security.
  - Appointed to the security panel of The President's Committee of Advisors on Science and Technology, with three meetings at the White House in 2000
  - Co-chair of the R&D working group of the Partnership for Critical Infrastructure Security, a national alliance of industry and government agencies
  - Founded the Security Research Alliance, a multi-vendor organization addressing critical issues in information security R&D
- Was a frequent public speaker on topics of Information Security, Critical Infrastructure Protection, and the national R&D agenda.

#### Director, NAI Labs 1998 - 1999

- Was responsible for the integration of Trusted Information Systems (TIS) Advanced Security Research Division into Network Associates, Inc. after acquisition. Oversaw 10 direct reports, and over 100 employees in four locations.
- Provided strategic direction and interaction with all functions of corporate staff. Managed relations with longstanding customers of TIS during transition period. Was responsible for complete operation of NAI Labs as a separate cost center. Key activities included business development, marketing, PR, technical oversight, financial management, delivery of research to government and commercial customers. During tenure, division met or exceeded all forecasts for profitability.
- Organized and directed annual Technology Exchange meetings between NAI Labs and other NAI business units to develop technical transfer opportunities, corporation-wide. Participated in engineering and product review meetings for all corporate products.

### **Trusted Information Systems, Inc., Los Angeles, CA, 1988 - 1998**

#### Director, Los Angeles Office, 1989- 1998

- Directed and managed West coast operations of Trusted Information Systems Advanced Security Research Division, consisting of 50 staff (50% with PhDs). Responsible for all operations, including annual budgeting, staffing, proposal development, and technical delivery of research reports and software prototypes.
- Was recognized expert and principal investigator for multiple research projects in distributed systems security, real-time operating systems, and communication mechanisms under DARPA funding.

#### Principal Computer Scientist, 1989 - 1998

- Project leader and contributor to numerous research and development projects for US government agencies and commercial clients, including:

- Lead engineer to Hughes Aircraft for consulting effort on information security for the Air Force F-22 program. Provided security architecture and design guidance for The Common Integrated Processor & Avionics Operating System.
- Researcher on DoD-sponsored effort for integrating security requirements with DoD Standard 2167A governing software development process.
- Principal Investigator for Air Force-sponsored Integrated Trusted System Development Environment investigating automated life cycle support for the development of highly trusted systems.
- Principal Computer Scientist for DARPA on the Trusted Real Time i960 Mach research with Hughes Aircraft Processor Group, investigating issues related to developing trusted real-time systems.

### **The MITRE Corporation, Bedford, MA, 1982 - 1988**

#### Group Leader, 1987 - 1988

- Responsible for five technical staff. Key activities included providing staff oversight and development, and research for numerous Air Force and National Security Agency (NSA) projects.

#### Project Leader, 1985 - 1987

- Led NSA-funded project investigating research into requirements for software verification environments.

#### Technical Staff, 1982 - 1985

- Team Leader in evaluating the formal design specification and verification of the Honeywell SCOMP system, recognized as the nation's highest-level, certified, secure operating system. Developed methods for mapping formal specifications to code and for reviewing formal specifications.

### **Charles Stark Draper Laboratory (MIT), Cambridge, MA, 1979 - 1982**

#### Research Assistant, 1979 - 1982

- Performed Master's Degree thesis research under an internal R&D grant to develop a parallel-processing algorithm for processing image data on Air Force F-15 aircraft.

## **AWARDS AND HONORS -**

- IEEE Computer Society Golden Core Member, 2022
- IEEE Security and Privacy Magazine: AEIC Outstanding Service Award, 2022
- US Department of Homeland Security Cyber is a Team Sport Award (2017)
- USC Information Sciences Institute Achievement Award (2015)
- IEEE Computer Society Technical Committee on Security and Privacy Recognition for Outstanding Community Service (2013)
- IEEE Computer Society Award for Continuing Service (2010)

## **SERVICE -**

### Societies:

- Vice Chair Technical Committee on Security and Privacy 1992 – 1993
- Chair Technical Committee on Security and Privacy 1994 – 1995
- Founder & Chair, Security Research Alliance, McAfee Labs (1999 - 2003)
- Treasurer Technical Committee on Security and Privacy 2009 - 2012
- IEEE Computer Society Board of Governors – 2021 – Present

- IEEE Computer Society Board of Governors, T&C Treasurer 2021 - Present
- IEEE Computer Society Board of Governors, Chair Integrity Committee, Pubs Board, 2022 - Present
- IEEE Computer Society Board of Governors, Member D&I Committee, 2022 - Present
- IEEE Computer Society Board of Governors, Chair Ad Hoc Committee D&I in Nominations 2022
- Computer Society Representative IEEE Future Directions Committee 2023

Editorial:

- Associate Editor in Chief IEEE Security and Privacy Magazine 2018 - Present
- Associate Editor in Chief IEEE Security and Privacy Magazine 2009 -2017
- Editor Security Viewpoints – Communications of the Association of Computing Machinery (2019 – Present)

Conferences:

- Learning from Authoritative Security Experiment Results Workshop, Organizing Committee 2016 -
- IEEE Security and Privacy (S&P) Workshop Steering Committee 2015 - 2020
- IEEE Security and Privacy (S&P) Workshops Treasurer 2013-2014
- IEEE Security and Privacy (S&P) Conference Treasurer 2006 - 2007
- IEEE Computer Security Foundations Workshop organizer 1990 - 1991
- IEEE Security and Privacy (S&P) Conference General Chair 1989
- IEEE Security and Privacy (S&P) Conference Vice Chair 1988
- IEEE Security and Privacy (S&P) Program Committee 1986
- Co-founder of GREPSEC Workshop for Women in Computer Security (2013, 2015, 2017, 2019)
- Program Committee, Computer Security Applications Conference 2005 - 2007
- Co-Chair, Partnership for Critical Infrastructure Security 1999 - 2003
- Co-Chair DETER Community Workshop, Usenix, 2007
- Founder Cyber Experimentation and Test Workshop, Usenix Security Conference 2008
- Co-Chair 2nd Workshop on Cyber Security Experimentation and Test Usenix, 2009
- Co-Chair 3rd Workshop on Cyber Security Experimentation and Test, Usenix, 2010
- Steering Committee Cyber Security Experimentation and Test, Usenix 2011 - present

**INVITED KEYNOTES -**

- *Sustaining Research Infrastructure-* Community Research Infrastructure Virtual Organization Workshop 2021
- *The Role of Testbeds in Cybersecurity Research and Experimentation*, Trusted Facility Workshop 2021
- *The Role of testbeds in Reproducible Cybersecurity Research*, DOE Cyber Experimentation & the Science of Security CESoS 2021 Workshop on Cyber-Physical Systems
- *Deter Testbed Update And Future Plans*, NITRD National Science and Technology Council's Working Group 2020
- *Rerun-ability, Repeatability, and Reproducibility in Experimentation*, LASER Workshop 2013
- *The Science of Cybersecurity Experimentation*, Keynote Speaker, Annual Application Security Conference 2011
- Keynote Speaker, Infocomm, Singapore 2002
- Keynote Speaker, NA Japan Industry Conference 2001
- Keynote Speaker, US / Sweden Information Assurance Alliance 2001
- Invited Participant, Toffler Associates Information Security Round Table 2000
- Panelist, National Science Foundation – Insider Threat Panel 2000

- Panelist, Institute for Defense Analysis Study on Information Protection 2000
- Keynote Speaker, Global Information Security Summit 2000
- Speaker, E-government, Federal CIO Council 2000
- Speaker, Dept. of Transportation Critical Information Security Conference 2000

## OTHER ACTIVITIES

Track Lead, NSF-OSTP Workshop on Cybersecurity of Quantum Computing (2022)  
 Co-Lead, White House Smart America Team (2013 - 2014)  
 Testified before the House Science, Space and Technology Committee Subcommittees on Research and Technology, Hearing on Cyber R&D Challenges and Solutions (February 2013)  
 Testified before House Committee on Science, “Cyber Security –How Can We Protect American Computer Networks for Attack” (2001)  
 Participant, National Institute for Information Protection Study (1999-2000)  
 Representative, Joint Logistics Commanders 2167A Committee (1990)

### Advisory Boards

Sandia National Labs SECURE External Advisory Board (2019 – 2021)  
 NSF FABRIC Advisory Committee (2020 – present)  
 NSF Computer and Information Science & Engineering Advisory Committee (2018 - present)  
 Technical Advisory Committee California Department of Transportation ( 2017 – present)  
 Board of Directors, Chatsworth Products (2019 - present)  
 Board of Directors, Zions Bancorporation (2019 - 2021)  
 Los Angeles Cyber Lab Advisory Board (2018 – 2020)  
 Advisory Board, Women in Cybersecurity Conference (WiCys) (2014 - 2017)  
 Advisory Board, OSDV (2008 - 2012)  
 Advisory Council, Internet2 Architecture and Operations (2008)

## PUBLICATIONS

### 2022

- “Toward Findable, Accessible, Interoperable, and Reusable Cybersecurity Artifacts.” David Balenson, Terry Benzel, Eric Eide, David Emmerich, David Johnson, Jelena Mirkovic, and Laura Tinnel. Proceedings of the 15th Workshop on Cyber Security Experimentation and Test (CSET 2022), pp 65-70, August 2022. <https://doi.org/10.1145/3546096.3546104>
- “Cybersecurity as Illuminator for the Future of Computing Research.” John Wroclawski and Terry Benzel. Communications of the ACM 65(5):39-41, May 2022. <https://doi.org/10.1145/3527202>
- Editors Introduction to the Special Issue on “Selected Papers From the 2021 IEEE Symposium on Security and Privacy”. Terry Benzel and Thorsten Holz. IEEE Security & Privacy, 20(2), 8-9, March-April 2022. <https://ieeexplore.ieee.org/document/9740706>

## 2021

- “Report of the Subgroup of the CISE Advisory Committee on Private-Sector Partnerships.” Terry Benzel, Vint Cerf, Gabriela Cruz Thompson, Marie desJardins, Tom Kalil, Muthu Muthukrishnan, Klara Nahrstedt, and Padma Raghavan. Technical Report, Directorate of Computer and Information Sciences and Engineering, National Science Foundation, 24 May 2021.  
[https://nsf.gov/cise/advisory/CISE\\_AC\\_PrivateSectorPartnerships\\_2021.pdf](https://nsf.gov/cise/advisory/CISE_AC_PrivateSectorPartnerships_2021.pdf)
- Proceedings of the 2021 NSF Cybersecurity Summit Workshop: Testbed Facility Security, October 2021. Published in Zenodo, <https://doi.org/10.5281/zenodo.5574111>
- Editors Introduction to the Special Issue on “Furthering the Quest to Tackle Hard Problems and Find Practical Solutions: ACSAC 2020.” Danfeng Yao and Terry Benzel. IEEE Security & Privacy 19(6), 23-24, 2021. <http://doi.org/10.1109/MSEC.2021.3106595>
- "Research and Industry Partnerships in Cybersecurity and Privacy Research: New Frontiers or Fueling the Tech Sector?" Terry Benzel. IEEE Security & Privacy 19(5), pp. 4-7, Sept.-Oct. 2021.  
<http://doi.org/10.1109/MSEC.2021.3094313>
- “Perspectives on the SolarWinds Incident.” Sean Peisert, Bruce Schneier, Hamed Okhravi, Fabio Massacci, Terry Benzel, Carl Landwehr, Mohammad Mannan, Jelena Mirkovic, Atul Prakash, James Bret Michael. IEEE Security & Privacy. 19(2), pp 7-13, March-April 2021. <http://doi.org/10.1109/MSEC.2021.3051235> .
- “ACSAC 2020: Furthering the Quest to Tackle Hard Problems and Find Practical Solutions.” Danfeng Daphne Yao and Terry Benzel. IEEE Security & Privacy 19(6), pp. 23-24, Nov.-Dec. 2021.  
<https://doi.org/10.1109/MSEC.2021.3106595>
- “Cybersecurity Research for the Future.” Terry Benzel. Communications of the ACM, 64(1), pp 26-28, January 2021. <http://doi.org/10.1145/3436241>

## 2020

- Editors Introduction to the Special Issue on “IEEE Euro S&P: The Younger Sibling Across the Pond Following in Oakland's Footsteps.” Terry Benzel and Frank Stajano. IEEE Security & Privacy. 18(3), pp 6-7, May-June 2020. <http://doi.org/10.1109/MSEC.2020.2980180>
- “Toward Orchestration of Complex Networking Experiments.” Alefiya Hussain, Prateek Jaipuria, Geoff Lawler, Stephen Schwab, and Terry Benzel. Proceedings of the 13th USENIX Conference on Cyber Security Experimentation and Test (CSET ‘20), USENIX Security Symposium, 2020.

## 2019

- Editors Introduction to the Special Issue on “Selected Papers From the 2018 USENIX Security Symposium.” William Enck and Terry Benzel. IEEE Security & Privacy, 17(4), pp 7-8, July-August 2019.  
<http://doi.org/10.1109/MSEC.2019.2915397>

## 2018

- Editors Introduction to the Special Issue on “Selected Papers from the 2017 IEEE Symposium on Security and Privacy.” Terry Benzel and Sean Peisert. IEEE Security & Privacy, 16(1) pp 10-11, January/February 2018. <http://doi.org/10.1109/MSP.2018.1331038>

## 2017

- Editors Introduction to the Special Issue on “Selected Papers from the 2016 IEEE Symposium on Security and Privacy.” Terry Benzel. IEEE Security & Privacy. 15(2), pp 11-13, March-April 2017. <http://doi.org/10.1109/MSP.2017.28>

## 2016

- “The Growth of a Conference, a Community, and an Industry.” Terry Benzel. IEEE Security & Privacy. 14(4), pp 3-5, July-August 2016. <http://doi.org/10.1109/MSP.2016.89>
- “The IEEE Security and Privacy Symposium Workshops.” Benzel, Terry. IEEE Security & Privacy. 14(2), pp 12-14, March-April 2016. <http://doi.org/10.1109/MSP.2016.29>
- “DETERLab and the DETER Project.” John Wroclawski, Terry Benzel, Jim Blythe, Ted Faber, Alefiya Hussain, Jelena Mirkovic, and Stephen Schwab. In “The GENI Book.” Rick McGeer, Mark Berman, Chip Elliott and Rob Ricci (Eds.) Springer-Verlag, New York, NY, 2016. [https://doi.org/10.1007/978-3-319-33769-2\\_3](https://doi.org/10.1007/978-3-319-33769-2_3)

## 2015

- “Cybersecurity Experimentation of the Future (CEF): Catalyzing a New Generation of Experimental and Cybersecurity Research.” David Balenson, Laura Tinnel, Terry Benzel. Final Report to the National Science Foundation, 31 July 2015. [https://cef.cyberexperimentation.org/application/files/2616/2160/7871/CEF\\_Final\\_Report\\_Bound\\_20150922.pdf](https://cef.cyberexperimentation.org/application/files/2616/2160/7871/CEF_Final_Report_Bound_20150922.pdf)
- Editors Introduction to the Special Issue on “An Enduring Symposium for Leading Research in Security and Privacy.” Terry Benzel. IEEE Security & Privacy, 13 (2), pp 12-13, March-April 2015. <http://doi.org/10.1109/MSP.2015.20>
- “A Strategic Plan for Cybersecurity Research and Development.” Terry Benzel. IEEE Security & Privacy. 13(4), pp. 3-5, July-August 2015. <http://doi.org/10.1109/MSP.2015.84>

## 2014

- “Enabling Collaborative Research for Security and Resiliency of Energy Cyber Physical Systems.” Alefiya Hussain, Ted Faber, Robert Braden, Terry Benzel, Tim Yardley, Jeremy Jones, David M. Nicol, William H. Sanders, Thomas W. Edgar, Thomas E. Carroll, David O. Manz, and Laura Tinnel. Proceedings of the 2014 IEEE International Conference on Distributed Computing in Sensor Systems, pp 358-360, April 2014. <http://doi.org/10.1109/DCOSS.2014.36>
- “A Symposium, a Magazine, and a Community [Guest editorial].” Terry Benzel. IEEE Security & Privacy. 12(3), pp 13-14, May-June 2014. <http://doi.org/10.1109/MSP.2014.39>

## 2013

- “Crossing the Great Divide: From Research to Market.” Terry V. Benzel, Eric O'Brien, Robert Rodriguez, William Arbaugh, and John Sebes. IEEE Security & Privacy 11(2), pp 42-46, March-April 2013. <http://doi.org/10.1109/MSP.2013.32>

- “Crossing the Great Divide: Transferring Security Technology from Research to the Market.” Terry V. Benzel and Steve Lipner. IEEE Security & Privacy (11)2, pp. 12-13, March-April 2013. <https://doi.org/10.1109/MSP.2013.33>
- “First Steps Toward Scientific Cyber-Security Experimentation in Wide-Area Cyber-Physical Systems.” Ryan Goodfellow, Robert Braden, Terry Benzel, and David E. Bakken. Proceedings of the 8th Annual Cyber Security and Information Intelligence Research Workshop (CSIIRW '13), Oak Ridge, TN, January 8-10, 2013. <https://doi.org/10.1145/2459976.2460021>
- “Deterlab Testbed for Cybersecurity Research and Education.” Jelena Mirkovic and Terry Benzel. Journal of Computing Sciences in Colleges. 28(4), pp 163-163. 2013.

## 2012

- “The DETER Project: Towards Structural Advances in Experimental Cybersecurity Research and Evaluation.” Terry Benzel and John Wroclawski. Journal of Information Processing (20)4, pp 824-834, October 2012. <https://doi.org/10.2197/ipsjjip.20.824>
- “Teaching Cybersecurity with DeterLab.” Jelena Mirkovic and Terry Benzel. IEEE Security & Privacy, 10(1), pp. 73-76, January-February 2012. <https://doi.ieeecomputersociety.org/10.1109/MSP.2012.23>

## 2011

- “The Science of Cyber Security Experimentation: The DETER Project.” Terry Benzel. Proceedings of the 27th Annual Computer Security Applications Conference (ACSAC '11), pp 137-148, Orlando FL, December 2011. <https://doi.org/10.1145/2076732.2076752>

## 2010

- “The DETER Project: Advancing the Science of Cyber Security Experimentation and Test.” Jelena Mirkovic, Terry V. Benzel, Ted Faber, Robert Braden, John T. Wroclawski, and Stephen Schwab. Proceedings of the 2010 IEEE International Conference on Technologies for Homeland Security (HST), pp. 1-7, November 2010. <https://doi.org/10.1109/THS.2010.5655108>

## 2009

- “Securing the Dissemination of Emergency Response Data with an Integrated Hardware-Software Architecture.” Timothy E. Levin, Jeffrey S. Dwoskin, Ganesha Bhaskara, Thuy D. Nguyen, Paul C. Clark, Ruby B. Lee, Cynthia E. Irvine, Terry V. Benzel. Proceedings of the 2nd International Conference on Trusted Computing (Trust'09), pp 133–152, February 2009. [https://doi.org/10.1007/978-3-642-00587-9\\_9](https://doi.org/10.1007/978-3-642-00587-9_9)
- “Idea: Trusted Emergency Management.” Timothy E. Levin, Cynthia E. Irvine, Terry V. Benzel, Thuy D. Nguyen, Paul C. Clark, Ganesha Bhaskara. Proceedings of the First International Symposium on Engineering Secure Software and Systems (ESSoS '09), pp 32–36, March 2009. [https://doi.org/10.1007/978-3-642-00199-4\\_3](https://doi.org/10.1007/978-3-642-00199-4_3)
- “Current Developments in DETER Cybersecurity Testbed Technology.” Terry Benzel, Bob Braden, Ted Faber, Jelena Mirkovic, Steve Schwab, Karen Sollins, John Wroclawski. Proceedings of the Cybersecurity Applications & Technology Conference for Homeland Security (CATCH 2009), March 2009. <https://doi.org/10.1109/CATCH.2009.30>

- “Trusted Emergency Management,” Timothy E. Levin, Cynthia E. Irvine, Terry V. Benzel, Thuy D. Nguyen, Paul C. Clark, Ganesha Bhaskara. Technical Report NPS-CS-09-001, Naval Postgraduate School, Monterey, CA, March 2009. <http://hdl.handle.net/10945/541>

## 2008

- “Information Assurance Technology Forecast 2008.” Steven M. Bellovin, Terry V. Benzel, Bob Blakley, Dorothy E. Denning, Whitfield Diffie, Jeremy Epstein, and Paulo Verissimo. IEEE Security & Privacy (6)1, pp 16-23, January-February 2008. <http://doi.org/10.1109/MSP.2008.13>

## 2007

- “Design Deployment and Use of the DETER Testbed.” Terry Benzel, Robert Braden, Dongho Kim, Clifford Neuman, Anthony Joseph, Keith Sklower, Ron Ostrenga, and Stephen Schwab. Proceedings of the DETER Community Workshop on Cyber-Security and Test, August 2007.
- “Design Principles and Guidelines for Security.” Timothy E. Levin, Cynthia E. Irvine, Terry V. Benzel, Ganesha Bhaskara, Paul C. Clark, and Thuy D. Nguyen. Technical Report NPS-CS-07-014, Department of Computer Science, Naval Postgraduate School, Monterey, CA. 21 November 2007. <https://apps.dtic.mil/sti/citations/ADA476035>
- “SecureCore Security Architecture: Authority Mode and Emergency Management.” Timothy E. Levin, Ganesha. Bhaskara, Thuy D. Nguyen, Paul C. Clark, Terry V. Benzel, and Cynthia E. Irvine. Technical Report NPS-CS-07-012, Department of Computer Science, Naval Postgraduate School, Monterey, CA. 16 October 2007. <https://apps.dtic.mil/sti/citations/ADA475810>

## 2006

- “Systemic Security Management.” Laree Kiely and Terry V. Benzel. IEEE Security and Privacy 4(6), pp 74–77, November 2006. <https://doi.org/10.1109/MSP.2006.167>
- “Experience with DETER: A Testbed for Security Research”. 2nd IEEE Conference on testbeds and Research Infrastructures for the Development of Networks and Communities” T. Benzel, R. Braden, D. Kim, C. Neuman, A. Joseph, K. Sklower, R. Ostrenga, S. Schwab. Proceedings of the 2nd International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TRIDENTCOM), March 2006. <http://doi.org/10.1109/TRIDNT.2006.1649172>
- “Preliminary Security Requirements for SecureCore Hardware.” Thuy D. Nguyen, Timothy E. Levin, Cynthia E. Irvine, Terry V. Benzel, and Ganesha Bhaskara. Technical Report NPS-CS-06-014, Department of Computer Science, Naval Postgraduate School, Monterey, CA. September 2006. <https://apps.dtic.mil/sti/citations/ADA457517>
- “Integration of User Specific Hardware for SecureCore Cryptographic Services.” Cynthia E. Irvine, Terry V. Benzel, Ganesha Bhaskara, Paul C. Clark, Timothy E. Levin, Thuy D. Nguyen. Technical Report NPS-CS-06-012, Department of Computer Science, Naval Postgraduate School, Monterey, CA. 1 July 2006. <http://hdl.handle.net/10945/518>
- “Virtualization of a Processor-based Crypto-Protection Mechanism and Integration within a Separation Kernel Architecture.” Ganesha Bhaskara, Timothy E. Levin, Thuy D. Nguyen, Cynthia E. Irvine, Terry V. Benzel, Jeffrey S. Dwoskin, and Ruby B. Lee. Technical Report CE-L2006-006, Department of Electrical Engineering, Princeton University, November 2006.

## 2005

- “Design Principles for Security.” Terry V. Benzel, Cynthia E. Irvine, Timothy E. Levin, Ganesha Bhaskara, Thuy D. Nguyen and Paul C. Clark. Technical Report NPS-CS-05-010, Department of Computer Science, Naval Postgraduate School, Monterey, CA. 1 September 2005.  
<https://apps.dtic.mil/sti/citations/ADA437854>

## 2004

- “Cyber Defense Technology Networking and Evaluation.” R. Bajcsy, T. Benzel, M. Bishop, B. Braden, C. Brodley, S. Fahmy, S. Floyd, W. Hardaker, A. Joseph, G. Kesidis, K. Levitt, B. Lindell, P. Liu, D. Miller, R. Mundy, C. Neuman, R. Ostrenga, V. Paxson, P. Porras, C. Rosenberg, J. D. Tygar, S. Sastry, D. Sterne, S. F. Wu. Communications of the ACM 47(3), pp 58–61, March 2004. <https://doi.org/10.1145/971617.971646>
- Cyber Defense Technology Experimental Research, T. Benzel, InterAct Magazine of The Corporation for Education Network Initiatives in California (CENIC), Spring 2004.

## 1996

- "SIGMA: Security for Distributed Object Interoperability between Trusted and Untrusted Systems" E. John Sebes, Terry C. Vickers-Benzel. Proceedings of the 12th Annual Computer Security Applications Conference, December 1996. <https://doi.org/10.1109/CSAC.1996.569690>
- “The Triad System: the Design of a Distributed, Real-Time, Trusted System.” E. John Sebes, Pierre X. Pasturel, Terry C. Vickers Benzel, Dennis Hollingworth, Eve L. Cohen, Peter Wang, Michael Barnett, David M. Gallon, and Roman Zajew. Technical Report Defense Technical Information Center. 1 January 1996.  
<https://apps.dtic.mil/sti/citations/ADA335139>

## 1993

- "Real-time trust with 'System Build': Lessons Learned." M. M. Bernstein and T. C. Vickers Benzel. Proceedings of 9th Annual Computer Security Applications Conference, pp. 130-136, December 1993.  
<https://doi.org/10.1109/CSAC.1993.315446>

## 1989

- “Developing trusted systems using DOD-STD-2167A.” Terry C. Vickers Benzel. Proceedings of the Fifth Annual Computer Security Applications Conference (ACSAC), pp. 166-176, December 1989.  
<https://doi.org/10.1109/CSAC.1989.81048>
- “Formal Policies for Trusted Processes.” Jaisook Landauer, Timothy Redmond, Terry Benzel. Proceedings of the Computer Security Foundations Workshop II (CSFW), pp. 31-40, June 1989.  
<https://doi.org/10.1109/CSFW.1989.40584>

## 1985

- “Trusted Software Verification: A Case Study.” Terry C. Vickers Benzel and Deborah A. Tavilla. Proceedings of the IEEE Symposium on Security and Privacy, pp. 14-14, 1985.  
<https://doi.org/10.1109/SP.1985.10003>

- “Verification technology and the A1 criteria.” Terry C. Vickers Benzel. ACM SIGSOFT Software Engineering. Notes 10(4) pp 108-109, 1985. <https://doi.org/10.1145/1012497.1012543>
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#### 1984

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