

CEM KANER

1600 Seabury Point Road, Palm Bay FL 32907

321-727-8084 (Voice & Fax) kaner@kaner.com

<http://www.kaner.com> <http://www.testingeducation.org>

OVERVIEW

My career is centered on the satisfaction and safety of software customers and developers. This is a broad, multidisciplinary, fascinating area of work. Within this area, I pick tasks or topics largely by considering where I can do the most good or make the most progress. I then develop the needed skills or find skilled collaborators and get to work. I do a thorough assessment and realignment every five years.

I am a practitioner at heart. My goal is always improvement of the state of the practice—I pick research and development projects that can have near-term payoffs for that goal. But so much of my work involves integrating the ideas of others and synthesizing, gathering evidence for, and advocating ideas for improvement, that the work has to be scholarly to be good, even if the horizon is near term. Six years ago, I realized that my work would fit naturally in a university environment and so I came back to school. It was a wonderful choice.

The project currently on my front burner is improving quality of education in software testing. Testing is a large portion of typical software development projects. Up to half of many companies' development staff are full-time testers. But few universities offer courses in testing. Most of what is taught at school and in commercial courses reiterates ideas developed at IBM in the 1960's. Software development has changed significantly since then, programs have become orders of magnitude more complex, markets and users more diverse and thus risks more varied. Testing *has* evolved, but at nowhere near the programming pace. We need a new generation of testing architects who can build the next paradigm(s) for testing. Achieving that requires university support—opportunities for strong, relevant, in-depth education.

I see testing as technical investigation of the product under test—a skilled, creative, tightly resource constrained search for quality-related information that is often (and not always) made more efficient by using a relevant tool. It is a collection of complex cognitive tasks, with the same educational issues that we see in the teaching of science and mathematics.

The tie that we can create from science education to testing education illustrates the kind of leverage that I've looked for throughout my career. We have an area that is not particularly well taught, academically or commercially, and other areas that provide strong suggestions for improvement. When I put them together (with the help of colleagues more knowledgeable in some areas than I am), I can make fairly straightforward, but significant, progress. In the testing case, my colleagues and I are putting together a Creative Commons licensed, web-based set of course materials that can be used in other schools and in corporations, for in-house or commercial training, anywhere in the world, for free. If we do this well enough, we will shift the focus and quality of education in this field. To see what we've got so far, check <http://www.testingeducation.org/BBST>. For more details on the educational theory, send me a note and I'll send you a copy of a recent grant proposal.

EDUCATION

Golden Gate University, J.D. (graduated with highest honors) 1993.

Research Focus: Laws governing software quality

Activities: Golden Gate University Law Journal, 1991-93. Teaching Assistant, Property Law I and II, 1991-92; American Jurisprudence awards in Contracts, Criminal Procedure, Property I, Property II, and Remedies.

Scholarships: Full tuition University Scholarship

Elected to the American Law Institute, May 1999.

McMaster University (Canada), Ph.D. Experimental Psychology, 1984.

Research Focus: Psychophysics (perceptual measurement)

Activities: Teaching Assistant in Statistics, Cognition, and Perception. Taught undergraduate courses in Perception and university extension courses in Computing.

Scholarships: National Sciences & Engineering Research Council of Canada, and the Ontario Graduate Scholarship.

Brock University (Canada), B.A. Arts & Sciences (mainly Mathematics and Philosophy), 1974.

Activities: University Ombudsman (1973). First freshman member of the University Senate (chief academic body of the university) (1970-71).

EMPLOYMENT

Professor of Software Engineering, Florida Institute of Technology (August 2000 – Present)

Awarded a National Science Foundation ITR grant (\$498,765) to research *Improving the Education of Software Testers*. Supplementary funding from Rational/IBM and Texas Instruments. (2001-2006).

Awarded a National Science Foundation EESE grant (\$268,066) to research *Ethics and values in science, engineering and technology*. (2006-2008)

Received the Teaching Award from Florida Tech's Department of Computer Sciences, Spring 2006.

I regularly teach: Software Testing 1 (black box system testing); Software Testing 2 (programmer testing); Software Metrics; Computer Law, Ethics & Society. I currently teach a test-first introduction to computer programming (CSE 1001) and will soon extend this to CSE 1002.

I chaired the Computer Sciences Department's curriculum committee and reorganized our graduate program in Software Engineering and our undergraduate program in Software Development (which became Software Engineering). Florida Tech now has one of very few accredited undergraduate degree programs in Software Engineering in the United States.

I drafted Florida Tech's stored course policy (intellectual property rules for video courses) while on the University's Intellectual Property Committee.

Served on the University's Institutional Review Board.

Law Office of Cem Kaner (January, 1994 – August 2000)

I drafted contracts and helped resolve disputes for authors, software developers and independent test labs.

I also did extensive public interest work, helping draft the Uniform Electronic Transactions Act (the Federal version of this is the E-SIGN act) and revisions to Article 2 of the Uniform Commercial Code, participating in the United States' Department of State's Advisory Committee on Private International Law: Study Group on Electronic Commerce, and serving as one of the leaders of the opposition to the Uniform Computer Information Transactions Act (UCITA). I also served on the Executive Committee of the Santa Clara County Bar Association High Tech Law Section, and as a Contract Advisor and Grievance Officer for the National Writers Union, and on the Board of Directors of the Northern California Hemophilia Foundation.

My official status as an attorney is now Inactive. However, I still do public interest work that does not require active Bar membership. I was elected to the American Law Institute in 1999 and currently am a member of several drafting committees. Most of my activity over the next few years will be in the Members Consultative Group for the Restatement of Employment Law. My blog on a Software Customer's Bill of Rights, <http://blackbox.cs.fit.edu/blog/kaner/archives/000124.html>, was the foundation for the recently published 12 Principles for Fair Commerce in Software and Other Digital Products, <http://www.fairterms.org/12PrincGeneral.htm>.

KANER.COM (January, 1994 – present)

KANER.COM provides training and consulting in software development. The training work of the firm has included teaching as an Extension Instructor for UC Santa Cruz Extension and UC Berkeley Extension (on software testing, software test automation and on the law of software quality) and for private firms such as Software Quality Engineering, ST Labs, Microsoft, Hewlett-Packard, Peoplesoft, Intel, Symantec, Cognos, Iomega, SAG America, and many others. Consultations include short-term assessments and longer term assignments (re)building, chartering, and managing teams of writers, programmers, and testing staff.

Deputy District Attorney (full-time volunteer), **Santa Clara County** (April 1994-July1994)

I handled 135 cases, including 5 trials.

Clerk, Law Office of Berne Reuben (December 1993 – April, 1994)

Analyzed legal and factual issues involving products liability (toxic tort), employment disputes, and professional responsibility.

Software Development Manager; Documentation Group Manager; Director of Documentation and Software Testing. Power Up Software.

I managed the development of two best sellers and several other products. My documentation staff (writers) and I won awards from the Society for Technical Communication. As Director, I managed 2/3 of the product development department's staff.

Software Test Manager, Electronic Arts. (January, 1988 - November, 1988)

Founded the Creativity Division's software testing group and managed it until the division closed. Received the company's Award of Achievement for developing a strong

collaboration between the technical support (marketing) and testing (product development) organizations.

Human Factors Analyst / Software Engineer, Telenova, Inc. (October, 1984 - January, 1988)

User interface designer and programmer for a voice/data digital PBX (private telephone system). The phone we designed was (and might still be) displayed in New York's Museum of Modern Art.

Testing Technology Team Leader; Software Testing Supervisor, MicroPro (WordStar). (July, 1983 - October, 1984)

Led the testing of InfoStar (a database), CorrectStar (an early spell checker) and several other products. Investigated and introduced productivity enhancements to the group. Primary interface with external test labs. Received the Vice-President's Award.

Associate (and then Senior Associate), Psylomar. (June 1983 - July, 1985 part time)

Organization development consultant. Psylomar trained me in consensus-based decision-making, meeting management, and analysis of corporate culture. I've taken related semester-length courses. This has been strong background for mediation and other negotiated conflict resolution.

Owner Trainee. Kaners, Inc., 1+1 Inc. 1966 - 1983 (part time, summers, some years full-time)

Raised to take over my parents' chains of clothing stores, I learned about business early in life. Working full- and part-time from age 13, I was an inventory systems analyst, store manager, assistant manager, salesperson, warehouseperson, cashier, and (pre-1966) store mascot.

PROFESSIONAL ORGANIZATIONS

I'm currently a member of the American Bar Association, American Intellectual Property Law Association, American Law Institute, American Psychological Association, American Psychological Society, American Society for Quality (Senior Member), Association for Computing Machinery, Association for Software Testing, Human Factors and Ergonomics Society, Institute for Electrical and Electronics Engineers (Senior Member), Society for Technical Communication (Senior Member), Software Support Professionals Association.

I serve on an IEEE standards committee (electronic voting equipment) and have served on an Underwriters Laboratories committee (software safety). I served on an ACM task force on the relationship between safety issues and the licensing of software engineers.

I am the founding editor of the Journal of the (recently formed) Association for Software Testing.

RECENT GRANT PROPOSALS

Ethics and values in science, engineering and technology. Proposal to the National Science Foundation, approved for funding, July 2006. <http://www.kaner.com/pdfs/EESesubmitted.pdf>.

Curricular support for software testing. Proposal to the National Science Foundation. This was not approved for funding in 2006, but it is the best current statement of my teaching-related research goals. <http://www.kaner.com/pdfs/CCLLcirculating.pdf>

PUBLICATIONS

I write to three distinct audiences: academics, computing practitioners, and practicing attorneys. Peer review is not a factor (certainly not an indicator of quality) in practitioner-oriented writing. Additionally, many of my most influential pieces were self-published on www.badsoftware.com or www.kaner.com.

The following list separates publications by audience. For example, an article about computer law that was written for programmers is listed under "Computing Practitioner" rather than "Legal Practitioner".

Publications: Books

Kaner, C., Bach, J., & Pettichord, B. (2001). *Lessons Learned in Software Testing*. New York: Wiley.

Kaner, C., & Pels, D. L. (1998). *Bad Software: What To Do When Software Fails*. New York: Wiley.

Kaner, C., Falk, J., & Nguyen, H. Q. (1993). *Testing Computer Software* (2nd ed.). New York: Wiley

Kaner, C. (1988). *Testing Computer Software*. New York: McGraw-Hill.

Publications: Academic Audience -- Published Articles

Glass, R.L, Collard, R, Bertolino, A., Bach, J. & Kaner, C. (2006, July) Software testing and industry needs, *IEEE Software*, 23(4) 55-57.

Kaner, C., & Fiedler, R. (2005). Testing library web sites for usability. *Journal of the American Association of School Librarians*, 33(5), 29-31.

Kaner, C. (2002). UCITA: A disaster in progress. *IEEE Spectrum*, 13-14.
<http://www.kaner.com/pdfs/UcitaSpectrum.pdf>

Kaner, C. (2002). UCITA update. *Computer Graphics*, 36(2), 18-21.
<http://www.siggraph.org/pub-policy/CGColumn-05-2002.html#Appendix%201>

Knight, J., Leveson, N., Clarke, L., DeWalt, M., Elliott, L., Kaner, C., et al. (2000). ACM Task Force on Licensing of Software Engineers Working on Safety-Critical Software: Draft Report. http://www.acm.org/serving/se_policy/safety_critical.pdf

Kaner, C. (1999). Software engineering & UCITA. *John Marshall Journal of Computer & Information Law*, 18(2), 435-546. <http://www.kaner.com/pdfs/engr2000.pdf>

Kaner, C. (1997). Pitfalls and strategies in automated testing. *IEEE Computer*(April), 114.

Kaner, C., & Lawrence, B. (1997). UCC changes pose problems for developers. *IEEE Software*(March/April), 139.

Kaner, C. (1993). Cheh-Cheng Wang ex rel the United States of America v. FMC Corp.: False Claims Act bar may be overturned by pending legislation. *Golden Gate University Law Review*, 23(1), 279-298.

Kaner, C. (1983). Results concerning Gatlin's tests for bias in finite sequences. *Journal of the American Society for Psychical Research*, 77, 31-43.

Galef, B. G., & Kaner, C. (1980). Establishment and maintenance of preference for natural and artificial olfactory stimuli in juvenile rats. *Journal of Comparative and Physiological Psychology*, 94, 588-595.

Kaner, C., Mohanty, S. G., & Lyons, J. C. (1980). Critical values of the Kolmogorov-Smirnov one-sample tests. *Psychological Bulletin*, 88, 498-501.

Publications: Academic Audience -- Conference Presentations

Kaner, C. (2006, January). Software testing as a social science. (Slides only). Presented at the Canadian Undergraduate Software Engineering Conference (CUSEC 2006), Montreal, Canada. <http://www.kaner.com/pdfs/KanerCUSECstss.pdf> (most recent version of this talk is at <http://www.kaner.com/pdfs/KanerSocialScienceDal.pdf>)

Kaner, C. (2006, January). Fundamental issues in software metrics. (Tutorial). Presented at the Canadian Undergraduate Software Engineering Conference (CUSEC 2006), Montreal, Canada. <http://cusec2006soen.info/tutorials/>

Kaner, C., & Fiedler, R. (2005, November). (Slides only) Blended Learning: A Software Testing Course Makeover. Presented at the 11th Sloan-C International Conference on Asynchronous Learning Networks, Orlando, FL. <http://www.kaner.com/pdfs/kanersloan.pdf>

Kaner, C., & Fiedler, R. (2005, October). Inside Out: A Computer Science Course Gets a Makeover. Presented at the 2005 Association for Educational Communications and Technology International Convention, Orlando, FL. <http://www.kaner.com/pdfs/kanerfiedleraectprint.pdf>

Tinkham, A., & Kaner, C. (2005, July). Experiences Teaching a Course in Programmer Testing. Presented at the Agile 2005 Conference, Denver, CO. <http://www.testingeducation.org/articles/ExperiencesTeachingTDD.pdf>

Kattamuri, K., Silaghi, M., Kaner, C., Stansifer, R. & Zanker, M. (2005, May) Supporting debates over citizen initiatives, *Proceedings of the 2005 National Conference on Digital Government Research*, Atlanta, GA., p. 279-280.

Kaner, C. (2004, November). Incorporating software testing in the software engineering curriculum. Presented at the ACM SIGSOFT 2004/Foundations of Software Engineering/Educator's Grant Program tutorials, Newport Beach, CA. <http://www.isr.uci.edu/FSE-12/tutorials.html>

Kaner, C. (2004, October). Liability for defective content. Presented at the 22nd Annual International Conference on Design of Communication: The Engineering of Quality Documentation, Memphis, TN. <http://www.kaner.com/pdfs/sigdocContent.pdf>

- Kaner, C. (2004, July). Software testing as a social science. Presented at the IFIP Working Group 10.4 meeting on Software Dependability, Siena, Italy.
<http://www.kaner.com/pdfs/ifipkaner.pdf>
- Kaner, C. (2004, June). Spam & taxes on e-commerce: How are they different? How are they alike? Presented at the Policy Summit on Issues in Cyberspace: Cyberethics, E-Commerce, Spam, Springfield, IL. <http://www.kaner.com/pdfs/cyberethics.pdf>
- Kaner, C. (2004, May). The past and future of software testing. Presented at the Software Testing Day, Tampere, Finland. <http://www.kaner.com/pdfs/lightBulbTampere.pdf>
- Kaner, C. (2004, May). Teaching software testing. Presented at a meeting of Finnish university teachers of software testing, at the Tampere University of Technology, Tampere, Finland. <http://www.kaner.com/pdfs/kanerTampereTeaching.pdf>
- Kaner, C. (2004, March). Teaching domain testing: A status report. Presented at the Conference on Software Engineering Education & Training, Norfolk, VA.
http://www.kaner.com/pdfs/teaching_sw_testing.pdf
- Kaner, C. (2004, March). Teaching the software testing course (tutorial). Presented at the Conference on Software Engineering Education & Training, Norfolk, VA.
http://www.kaner.com/pdfs/teaching_sw_testing.pdf;
<http://www.testingeducation.org/k04/index.htm>
- Kaner, C. (2004, February). Carts before horses: Using preparatory exercises to motivate lecture material. Presented at the Workshop on Teaching Software Testing, Melbourne, FL.
<http://www.kaner.com/pdfs/CartsBeforeHorses.pdf>
- Kaner, C., & Bond, W. P. (2004, September). Software engineering metrics: What do they measure and how do we know? Presented at the 10th International Software Metrics Symposium (METRICS 2004), Chicago, IL.
<http://swmetrics.mockus.us/metrics2004/lbp/KanerBond.pdf>
- Kaner, C., & Fay, S. (2004, March). Teaching the black box testing course (Faculty Poster). Presented at the Conference of the ACM Special Interest Group on Computer Science Education (SIGCSE 2004), Norfolk, VA. <http://www.kaner.com/pdfs/bbstSIGCSE.pdf>
- McGee, P., & Kaner, C. (2004, July). Experiments with high volume test automation. Presented at the Workshop on Empirical Research in Software Testing, International Symposium on Software Testing and Analysis, Boston, MA.
<http://www.kaner.com/pdfs/MentsvillePM-CK.pdf>
- Kaner, C. (2003, October). Liability for defective documentation. Presented at the ACM Special Interest Group for Design of Communications, San Francisco, CA, USA.
http://www.kaner.com/pdfs/liability_sigdoc.pdf
- Kaner, C. (2003). Assessment in the software testing course. Presented at the Workshop on the Teaching of Software Testing (WTST), Melbourne, FL.
<http://www.kaner.com/pdfs/AssessmentTestingCourse.pdf>

- Kaner, C. (2002, February). Tutorial: Issues in commercial law of interest to software engineering educators. Presented at the Conference on Software Engineering Education and Training, Cincinnati, OH. http://www.kaner.com/pdfs/cseet_ucita_tutorial.pdf
- Kaner, C. (2001, April). Business ethics and electronic mail. Presented at the Florida Tech Business Ethics Conference, Melbourne, FL. <http://www.kaner.com/pdfs/EthicsEmail.pdf>
- Kaner, C. (2001, March). UCITA: Have you ever read your shrinkwrapped license? (Debate). Presented at the ACM Conference on the Future of Computing, Freedom & Privacy, Cambridge, MA. <http://www.kaner.com/pdfs/UcitaCFP.pdf>
- Kaner, C. (1999, October). UCITA: A new way to promote social irresponsibility (Invited address). Presented at the Annual Meeting of the Computer Professionals for Social Responsibility, Berkeley, CA. <http://www.kaner.com/pdfs/cpsr1999.pdf>
- Kaner, C., Osborne, R., Anchel, H., Hammer, M., & Black, A. H. (1978). How do fornix-fimbria lesions affect one-way active avoidance behavior? Presented at the 86th convention of the American Psychological Association, Toronto, Canada. <http://www.kaner.com/pdfs/HowDoFornix.pdf>

Publications: Academic Audience -- Self-Published

- Kaner, C. (2004, April 7). Accountability for defects in commercial software: Controversy over the ground rules. Presented at the Colloquium at Carnegie Mellon University, Pittsburgh, PA. <http://www.kaner.com/pdfs/accountability.pdf>
- Kaner, C. (2004, January 23). Literature reviews. <http://www.kaner.com/pdfs/LiteratureReview.pdf>
- Kaner, C. (2003, April). Fundamental challenges in software testing. Presented at the Colloquium at Butler University, Indianapolis, IN. <http://www.kaner.com/pdfs/FundamentalChallenges.pdf>
- Kaner, C. (2003, February). How to answer essay questions in the graduate level Computer Sciences exams. <http://www.kaner.com/pdfs/EssayQuestions.pdf>
- Kaner, C. (2002, December). Sexual harassment in the workplace. Presented at the Association for Women in Computing (Florida Tech chapter), Melbourne, NF. http://www.kaner.com/pdfs/sexual_harassment.pdf
- Kaner, C. (2002, February). Dimensions of excellence in a dissertation. <http://www.kaner.com/pdfs/dissertationStds.pdf>
- Kaner, C. (2002). Looking for your first job in software testing. http://www.kaner.com/pdfs/florida_tech_job_seeking.pdf
- Kaner, C. (2001, September). UCITA and proposed revisions to UCC Article 2: New rules for software transactions. Presented at the Underwriters Laboratories meeting to review a safety standard for embedded software, Research Triangle Park, NC. <http://www.kaner.com/pdfs/UCITAatUL.pdf>

- Kaner, C. (1999). Software test automation: A real-world problem. Presented at the Colloquium at Allegheny College, Meadville, PA. <http://www.kaner.com/pdfs/allegheny.pdf>
- Kaner, C. (1997, December). New laws to govern software: A look at the thinking behind the laws. Presented at the Bay Area Round Table -- UC Irvine, Irvine Research Unit in Software, Palo Alto, CA.
- Kaner, C., & Lyons, J. C. (1979). Tables and power comparisons for different versions of the Kolmogorov-Smirnov and Schuster statistics (No. 67). Hamilton, Canada: McMaster University.

Publications: Computing Practitioner Audience -- Published Articles

- Kaner, C. (2003). The power of 'What If...' and nine ways to fuel your imagination: Cem Kaner on scenario testing. *Software Testing and Quality Engineering Magazine*, 5, 16-22. <http://www.kaner.com/pdfs/ScenarioSTQE.pdf>
- Kaner, C. (2002, October 21). XP, iterative development, and the testing community. www.stickyminds.com. http://www.stickyminds.com/s.asp?F=S5970_COL_2
- Kaner, C. (2000, March/April). Rethinking software metrics: Evaluating measurement schemes. *Software Testing & Quality Engineering*, 2, 50-57. http://www.kaner.com/pdfs/rethinking_sw_metrics.pdf
- Kaner, C. (2000). Successful staffing: Recruiting software testers (Part 2). *Software Development*, 8(1).
- Kaner, C. (1999, July). A response to: "Why software professionals should support the Uniform Computer Information Transactions Act (and what will happen if they don't)" (A response solicited by the Editor of *Software Quality Professional* for their website). <http://www.kaner.com/pdfs/asqrebut.pdf>
- Kaner, C. (1999, May/June). Don't use bug counts to measure testers. *Software Testing & Quality Engineering*, 80. <http://www.kaner.com/pdfs/bugcount.pdf>
- Kaner, C. (1999). Why software quality professionals should oppose UCITA. *Software Quality Professional*. <http://www.kaner.com/pdfs/asqucita.pdf>
- Kaner, C. (1999). Successful staffing: Recruiting software testers (Part 1). *Software Development*, 7(12), 62 ff.
- Kaner, C., & Pels, D. L. (1999). UCITA: A bad law that protects bad software (Op-Ed). *Network World*. <http://www.kaner.com/pdfs/OpEd.pdf>
- Kaner, C. (1998). Year 2000, how can I sue thee? Oh, let me count the ways! *Software QA*, 5(3). <http://www.kaner.com/pdfs/Y2kSueThee.pdf>
- Kaner, C. (1998). Contracts for Y2K services: Traps for the software testing consultant. *Software QA*, 5(2), 24. <http://www.kaner.com/pdfs/ContractsY2kConsultant.pdf>

- Kaner, C. (1998). The problem of reverse engineering. *Software QA*, 5(5).
<http://www.kaner.com/pdfs/reveng.pdf>
- Kaner, C. (1998). Liability for product incompatibility. *Software QA*, 5(4), 33.
<http://www.kaner.com/pdfs/liability.pdf>
- Kaner, C., Lawrence, B., & Johnson, R. (1998). SPLAT! Requirements bugs on the information superhighway. *Software QA*, 5(1), 18. <http://www.kaner.com/pdfs/splat.pdf>
- Kaner, C., & Pels, D. (1998). Copyright laws and Y2K maintenance. *Innovations in Software Support: Journal of the Software Support Professionals Association*, 2.
<http://www.kaner.com/pdfs/CopyrightY2K.pdf>
- Kaner, C. (1997). The impossibility of complete testing. *Software QA*, 4(4), 28.
<http://kaner.com/pdfs/imposs.pdf>
- Kaner, C. (1997). Improving the maintainability of automated test suites. *Software QA*, 4(4), 28 ff. <http://www.kaner.com/pdfs/autosqa.pdf>
- Kaner, C. (1997). Software liability. *Software QA*, 4(6). <http://www.kaner.com/pdfs/theories.pdf>
- Kaner, C. (1997). Legal issues related to software quality. *Software QA*, 2(1), 1.
<http://www.kaner.com/pdfs/asqkaner.pdf>
- Kaner, C. (1997). Contracts for testing services: Settling disagreements. *Software QA*, 4(2).
http://www.kaner.com/pdfs/contract_disagreements.pdf
- Kaner, C. (1997). Contracts for testing services: Warranty and indemnification. *Software QA*, 3(5), 20. <http://www.kaner.com/contract1.htm>
- Kaner, C., & Pels, D. L. (1997). Software customer dissatisfaction. *Software QA*, 4(3), 24.
<http://www.kaner.com/pdfs/sqastat2.pdf>
- Kaner, C. (1996). Liability for defective content. *Software QA*, 3, 56.
<http://www.kaner.com/pdfs/content.pdf>
- Kaner, C. (1996). What is a software defect? *Software QA*, 3(6).
<http://www.kaner.com/pdfs/defects4.pdf>
- Kaner, C. (1996). Computer malpractice. *Software QA*, 3(4), 23.
http://www.kaner.com/pdfs/Malprac_1996.pdf
- Kaner, C. (1996). Uniform Commercial Code Article 2B: A new law of software quality. *Software QA*, 3(2), 10. <http://www.kaner.com/pdfs/ucc2b.pdf>
- Kaner, C. (1996). Quality cost analysis: Benefits and risks. *Software QA*, 3(1), 23.
http://www.kaner.com/pdfs/Quality_Cost_Analysis.pdf
- Kaner, C., & Pels, D. L. (1996). User documentation testing: Ignore at your own risk. *Customer Care*, 7(4), 7.

- Kaner, C. (1995, July). Software quality & the law. *The Gate* (newsletter of the San Francisco Section of the American Society for Quality Control), 1.
- Kaner, C. (1995). Liability for defective documentation. *Software QA*, 2(3), 8.
<http://www.kaner.com/pdfs/baddocs.pdf>
- Kaner, C. (1995). Software negligence and testing coverage. *Software QA Quarterly*, 2(2), 18.
http://www.kaner.com/pdfs/negligence_and_testing_coverage.pdf
- Kaner, C., & Bach, J. (1995). Getting the most from outsourced testing. *The STL Report*, November/December.
- Kaner, C., & Vokey, J. R. (1985, November). Subroutine master. *Nibble*, 46.
- Kaner, C., & Vokey, J. R. (1984, June). A better random number generator. *Micro*, 26.
<http://www.kaner.com/pdfs/random.pdf>
- Vokey, J. R., & Kaner, C. (1983, March). Print control for Apple printers. *Micro*, 24.
- Kaner, C., & Vokey, J. R. (1982, May). Modifying Apple's floating point BASIC. *Compute*, 147.
- Vokey, J. R., & Kaner, C. (1982, February). Disassembling machine language programs without leaving BASIC. *Compute*, 68.

Publications: Computing Practitioner Audience -- Conference Presentations

- Kaner, C. (2006, October). Open courseware and open certification in software testing. [Invited address, slides only] Presented at the Indianapolis Quality Assurance Association conference, Indianapolis, IN.
- Kaner, C. (2006, October). Software testing as a social science. [Invited address, slides only] Presented at the Indianapolis Quality Assurance Association conference, Indianapolis, IN. <http://www.kaner.com/pdfs/KanerSocialScienceDal.pdf>
- Kaner, C. (2006, October). "Developing software testing courses for your staff." [Workshop, slides only] Presented at the *Pacific Northwest Software Quality Conference*, Portland, OR. <http://www.kaner.com/pdfs/PNSQCCreatingInHouseTestingCourse.pdf>
- Kaner, C. (2006, September). The nature of exploratory testing. (Keynote address, slides only). Presented at the CHOICES in IT confence, Columbus, OH. <http://www.sdp-inc.com/docs/KanerSlides.pdf>
- Kaner, C. & Hanna, M. (2006, September) Debate on the testing certification. Presented at the CHOICES in IT confence, Columbus, OH.
- Kaner, C. (2006, August) Inefficiency and ineffectiveness of software testing: A key problem in software engineering. White paper prepared for the *National Defense Industrial Association's Systems Engineering Workshop on the Top 5 Software Issues*, Washington, D.C. <http://www.kaner.com/pdfs/Top5SEissues.pdf>

- (The final report from the NDIA, which shows the influence of my white paper, is at <https://acc.dau.mil/GetAttachment.aspx?id=119000&pname=file&aid=24945>.)
- Kaner, C. (2006, July). Career development, education, training and certification." [Invited address, slides only] Presented at *Progressive Insurance*.
<http://www.kaner.com/pdfs/CareerDevelopmentProgressive.pdf>
- Kaner, C. (2006, June). Exploratory testing after 23 years. (Keynote address, slides only). Presented at the Conference of the Association of Software Testing, Indianapolis, IN.
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- Kaner, C., & Kurtz, M. (1997, March). Software contracting: Proposed revisions to the UCC. Presented at the MCLE seminar sponsored by the High Tech Law Section of the Santa Clara County Bar Association, Palo Alto, CA. <http://www.kaner.com/pdfs/UCCMAR31.pdf>
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- Kaner, C. (1996, November). Privacy problems in Article 2B. Circulated at the Meeting of the National Conference of Commissioners on Uniform State Laws' Article 2B Drafting Committee, Tampa, FL.
- Kaner, C. (1996, April). Warranty and liability hypotheticals for UCC Article 2B. Circulated at the Meeting of the National Conference of Commissioners on Uniform State Laws' Article 2B Drafting Committee, Philadelphia, PA.

WORKSHOPS ORGANIZED

I organized the first Los Altos Workshop on Software Testing in 1997, co-hosting it with Drew Pritsker and Brian Lawrence. This is a highly interactive type of meeting, run by an experienced facilitator, and attended by participants who applied and were accepted or who were specifically invited. Attendance is typically free of charge and there are often many more applications than seats available. A presentation runs for as long as the discussion is productive—from 10 minutes to an entire day. Within a "presentation", other participants are welcome to make supplementary presentations or counter-presentations of their own. Discussions are collegial in tone but we foster a spirit of critical inquiry. These workshops have taken a life of their own—I haven't been to them all, and certainly have not organized them all. I have been one of the organizers of the following workshops:

Workshop on Open Certification (WOC) (2006, June), Indianapolis, IN.

Workshop on the Teaching of Software Testing (WTST 5) (2006, February), Melbourne, FL

Software Test Managers Roundtable (STMR 10). (2005, May). Planning and Assessing Tester Training, Melbourne, FL.

Workshop on the Teaching of Software Testing (WTST 4). (2005, February). Melbourne, FL.

Software Test Managers Roundtable (STMR 9). (2004, May). Working Effectively with Outsourcing, Melbourne, FL.

Austin Workshop on Test Automation (AWTA 5). (2004, January). Open Source Test Tools, Austin, TX.

Workshop on the Teaching of Software Testing (WTST 3). (2004, February). Melbourne, FL.

Software Test Managers Roundtable (STMR 8). (2003, May). Measuring and Evaluating the Performance of Individual Testers, Orlando, FL.

Austin Workshop on Test Automation (AWTA 4). (2003, January). Building and Using Test Interfaces, Austin, TX.

Workshop on the Teaching of Software Testing (WTST 2). (2003, February). Courses in Software Testing, Melbourne, FL.

Software Test Managers Roundtable (STMR 6). (2002, May). Measuring Performance of Individual Testers, Orlando, FL.

Workshop on Teaching of Software Testing (WTST 1). (2002, February). Sharing Notes on How We Teach Testing, Melbourne, FL.

Austin Workshop on Test Automation (AWTA 3). (2002, April). How to Create Realistic Load Tests, Austin, TX.

Software Test Managers Roundtable (STMR 5). (2001, October). How To Deal With Financially Challenging Times? Measuring Your Test Group's Effectiveness, San Jose, CA.

Software Test Managers Roundtable (STMR 4). (2001, May). Rapid Testing, Orlando, FL.

Austin Workshop on Test Automation (AWTA 2). (2001, January). Design for Testability, Austin, TX.

Workshop on Model Based Testing. (2001, February). State Model Based Testing Examples, Melbourne, FL.

Workshop on Patterns of Software Testing (POST 2). (2001, April). Workshop on Patterns of Software Testing (POST 2), Indiatlantic, FL.

Workshop on Heuristic and Exploratory Techniques (WHET 2). (2001). Demonstrating Exploratory Techniques, Front Royal, VA.

Los Altos Workshop on Software Testing (LAWST 11). (2000, October). Patterns and Web-Related Testing, Sunnyvale, CA.

Software Test Managers Roundtable (STMR 3). (2000, October). Staffing Models, San Jose, CA.

Los Altos Workshop on Software Testing (LAWST 9). (2000, March). Grey Box Testing, Sunnyvale, CA.

Los Altos Workshop on Software Testing (LAWST 10). (2000, June). Testers' Notebooks, Cupertino, CA.

Austin Workshop on Test Automation (AWTA 1). (2000, April). Architectures for Test Automation, Austin, TX.

Software Test Managers Roundtable (STMR 2). (2000, April). Measuring the Extent of Software Testing, Orlando, FL.

Workshop on Heuristic and Exploratory Techniques (WHET 1). (2000). Paired Exploratory Testing, Front Royal, VA.

Software Test Managers Roundtable (STMR 1). (1999, October). Dealing With Too Many Projects and Not Enough Resources, San Jose, CA.

Los Altos Workshop on Software Testing (LAWST 7). (1999, July). Exploratory Testing, Cupertino, CA.

Los Altos Workshop on Software Testing (LAWST 6). (1999, February). Testability, Los Altos, CA.

Los Altos Workshop on Software Testing (LAWST 8). (1999, December). Measurement in Software Testing, Cupertino, CA.

Los Altos Workshop on Software Testing (LAWST 5). (1998, October). A Framework for Test Automation oracles, San Diego, CA.

Los Altos Workshop on Software Testing (LAWST 4). (1998, May). When Should Tests Not be Automated? Los Altos, CA.

Los Altos Workshop on Software Testing (LAWST 3). (1998, February). Test Documentation, Los Altos, CA.

Los Altos Workshop on Software Testing (LAWST 2). (1997, July). Requirements Analysis for Automated Testing, Los Altos, CA.

Los Altos Workshop on Software Testing (LAWST 1). (1997, February). Maintainability of Automated Tests, Los Altos, CA.