**ROSS KOPPEL, Ph.D., FACMI**
**At the University of Pennsylvania:**
Adjunct Professor (full), Sociology Department
Senior Fellow, Leonard Davis Institute for Healthcare Economics, The Wharton School
Senior Fellow, Center for Public Health Initiatives, Perelman School of Medicine.
Affiliate Professor of Medicine, Center for Clinical Epidemiology and Biostatistics
Principal Investigator, NSF-Intel Study of Cybersecurity Vulnerabilities of the Internet of Things,
Department of Computer Engineering, School of Engineering & Applied Science.
**Also:** President, **Social Research Corporation**, Wyncote, PA; and
Research Professor, Department of Biomedical Informatics**, SUNY at Buffalo**, Buffalo, NY

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## EDUCATION

| | | | |
|---|---|---|---|
| January 1969 | B.A. | Temple University, Sociology |
| May 1971 | M.A. | Temple University, Sociology |
| January 1981 | Ph.D. | Temple University, Sociology |
| | | Dissertation: The Role of Social Psychological Variables in Status Attainment of Young Men (1980) |
| 1998 | C.C.S. | Certified Clinical Sociologist (Sociological Practice Association) |

## CURRENT PROFESSIONAL APPOINTMENTS AND DATES

1991-present  Adjunct Professor (full), Department of Sociology, University of Pennsylvania, Philadelphia, PA

2002-present  Affiliate Professor of Medicine, Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania, Philadelphia, PA

2008-present  Principal Investigator, Department of Computer Engineering, School of Engineering & Applied Science, University of Pennsylvania, Philadelphia, PA

2016-present  Research Professor, Department of Biomedical Informatics, University at Buffalo, Buffalo, NY

2015-present  Senior Investigator: NSF-Intel Study of Cybersecurity Vulnerabilities of the Internet of Things. University of Pennsylvania, School of Engineering & Applied Science, Philadelphia, PA

1985-present  President, Social Research Corporation, Wyncote, PA

2014-present  Senior Fellow, Leonard Davis Institute for Healthcare Economics, The Wharton School, University of Pennsylvania, Philadelphia, PA

2016-present  Senior Fellow, Center for Public Health Initiatives, Perelman School of Medicine. University of Pennsylvania, Philadelphia, PA

**PREVIOUS APPOINTMENTS**

2009-2014    Evaluator, Harvard Medical School's SHARP 3 project to develop a new HIT computer architecture, Cambridge, MA

2007-2010    Monitor (Federal Appointment): Oversight of Boston-area transit (MBTA) system's efforts for persons with disability.

2010-2011    Monitor (Federal Appointment): Oversight of Detroit transit system's efforts for persons with disability.

2009-2012    Evaluator, Housing relocation assistance in Allentown, PA,  Allentown Housing Authority, HOPE 6 project

2003         Appointed, Faculty advisor to develop course on preparing undergraduates for statistics, University of Pennsylvania, Philadelphia, PA

1983-1985    Director of Social and Demographic Research. PNR & Associates, Incorporated: Economic, Management, Statistical Consulting. Roslyn, PA

1981-1983    Director of Research, Evaluation, and Policy Analysis, Employment and Training Administration Intake System, Center for Social Policy and Community Development, Philadelphia, PA

1979-1983    Sociology Consultant. Work included: report on job openings for youths (Pennsylvania Government); survey research on museum utilization (Academy of Natural Sciences); energy use surveys (PA governor's office). (part-time)

1976-1979    Survey Research Director. Philadelphia Occupational Choice Model. Department of Economics, Temple University, Philadelphia, PA

1975-1976    Research Associate. Bureau of Economic and Business Research, Temple University, Philadelphia, PA

1973-1975    Director of Evaluation. Governor's Justice Commission of Pennsylvania (three projects):
Data Microfilm System for Courts. 1973-1975
COJINT (automated data systems for court administration, prisons, police, and district attorney). 1974-1975
Narcotics Training for Police. 1973-1974

1973-1974    Research Coordinator. Study of the Relationship between Crime and Drug Use. Center for Social Policy and Community Development, Philadelphia, PA

1972-1973    Research Analyst. Center for Research on the Acts of Man, University of Pennsylvania, Philadelphia, PA

1966-1968    Research Assistant/Statistician, Department of Sociology, Temple University, Philadelphia, PA

**HONORS, AWARDS AND SCHOLARSHIPS**

Appointed Senior Fellow, Center for Public Health Initiatives, Perelman School of Medicine. University of Pennsylvania Perelman School of Medicine 2016

Appointed Senior Fellow, Leonard Davis Institute for Healthcare Economics, The Wharton School, University of Pennsylvania, 2014

Elected, Fellow of the American Academy of Medical Informatics, 2012

Recipient, Distinguished Career Award for the Practice of Sociology, American Sociological Association, 2012

Recipient, Robert Ezra Park Award for Sociological Practice.  The Association for Applied and Clinical Sociology, 2007

Selected as Nominator for the Kyoto Award, Inamori Foundation, Japan, 2007

Recipient of the Sociological Practice Award – "to an individual who has demonstrated how sociological practice can advance and improve society" – from the Society for Applied Sociology, 2002

Recipient of the William Foote Whyte Distinguished Career Award for the Practice of Sociology. American Sociological Association, Section on Sociological Practice, 1998

National Science Foundation/American Sociological Association travel grant to the World Congress of Sociology (International Sociological Association) in Madrid, Spain, 1990

Evaluator, National Endowment for the Humanities, 1977-1985

National Institute of Mental Health Fellowship, 1968-1969; renewed 1969-1970, 1971-1972

Dean's List, 1966-1968

National Science Foundation Undergraduate Grant, 1966

**Assorted Additional Honors and Appointments**:

Appointed Member, Institute of Medicine (IOM) review panel for IOM report on HIT and patient safety, 2012

Appointed Member, Office of the National Coordinator of Healthcare Information Technology (ONC) task force on recommendations from IOM's report on HIT & patient safety, 2012

Appointed Member, Technical Advisory Committees: ONC study of unintended consequences of HIT (Westat-AMIA)

Appointed member, Geisinger-ONC Beacon project to integrate healthcare information 2009-2010

Harvard Medical School Panel on Open Information Technology Architecture, 2009

Alfred P. Sloan Foundation and the Industry Studies Committee: Affiliate Member, 2007

Elected President: Association for Applied and Clinical Sociologists. 2005-2007

Evaluator: National Science Foundation, 1993-present

Appointed to the White House Conference on the Future of Small Business & Entrepreneurship. 1994; reappointed 2000

Appoint to panel of advisors for a television news series on the future of Philadelphia; WCAU-TV, a Division of CBS Television, Inc., 1989

Elected to the Executive Board, Industrial Human Services Council, 1987; reelected 1988-1991

Appointed to advisory panel to the Franklin Institute's Future Choices Forum, 1989-1990

Elected to the Board of Trustees of The Center School. December, 1989-1991

Elected Chair (1992 - 1994), Elected Vice Chair (1991), Board of Directors of The Women's Medical Fund of Greater Philadelphia. Elected to Board, 1990

Elected Chair, Section on Temporal Ecology of the Research Committee on Social Ecology: International Sociological Association, 1982 - 1987.

Elected President of the Graduate Sociology Association, 1970-1971

Appointed to the Research Committee, Department of Sociology, Temple University, 1971-1972
Elected Chair, College of Liberal Arts Student-Faculty Committee on Governance,1968


**Editorial Board and Associate Editor Roles**

Journal of Applied Clinical Informatics 2015-2019 (Appointed Assoc. Editor, 2017-2019)
Journal of Applied Clinical Informatics. 2016-2019
Journal of the International Medical Informatics Association 2013-2015, 2016-2018
International Journal of Medical Informatics, 2009-present
Journal of Sociological Practice and Clinical Sociological Review, 1997- present

**American Medical Informatics Association (AMIA)**
Elected Chair, Clinical Information Systems Working Group 2015-2018
Elected Chair, Evaluation Working Group 2012-2015
Appointed Member, Scientific Program Committee, 2016 (2nd appointment)
Appointed Member, Scientific Program Committee, 2012
Member and author, Usability Task Force, AMIA 2010-2012
Appointed Member, Task Force on Vendor-Healthcare provider contractual relations, 2009-2011

**American Sociological Association**

Elected Chair, Committee for the selection of the Distinguished Career Award for the Practice of Sociology, 2013-2014 and 1996

Appointed to the Committee on Ethics, 1998-2000

Appointed to the Program Committee, 2001; reappointed 2002

Elected Chair:  Section on Sociological Practice, 1992-1993

Appointed to the Committee on Sociological Practice, 1993-1995

Appointed to the Committee on Employment, 1991-1993

Appointed to Committee for Development of Degree Program in Sociological Practice 1990-1992

Elected to the Executive Council, Section on Sociological Practice, 1987-1990

Appointed to the Committee for the Distinguished Career Award for the Practice of Sociology, 1994-1996

Appointed Chair, Committee on Policy, Section on Sociological Practice, 1987-1990

Appointed to the Committee for the Sociological Practice Lifetime Achievement Award (1986) and to the Planning Committee (1987), Sociological Practice Section

**European Sociology Association**

Elected to Board of Directors, Qualitative Sociology Section, 2003-18 (re-elected 7 times)

**Sociological Practice Association**

Elected President, 2003-2005

Elected Chair: Merger Task Force of Sociological Practice Association and Society for Applied Sociology 2003-2006

Elected to the Board of Directors, 1997-1999, reelected 1999-2001

Chair of the Ethics Committee, 1997-2001

**Eastern Sociological Society**

Appointed to the Candace Rogers Student Award Paper Committee, 2002

Appointed to the Paper Committee, 1991

Appointed: Chair and Co-Chair, Membership Committee, 1987-88; 1988-1994

Appointed to the Computer Committee, 1991-1992, 1992-1993

Appointed to the Committee on Employment, 1981-1983

**ADDITIONAL PROFESSIONAL/SCIENTIFIC ORGANIZATION ACTIVITIES**

Many professional leadership positions: 1982 to present.

**PROFESSIONAL ASSOCIATIONS**

American Medical Informatics Association

International Medical Informatics Association

American Sociological Association

Association for Applied and Clinical Sociology

American Association of University Professors (Discontinuous participation)

Eastern Sociological Society (Discontinuous participation)

International Sociological Association (Discontinuous participation)

Industrial Relations Research Association (Discontinuous participation)

Sociological Practice Association

European Sociological Association

**SERVICE TO THE PROFESSION**

**Reviewer** *(partial list)*

Annals of Emergency Medicine
Applied Clinical Informatics
Archives of Internal Medicine
Annals of Internal Medicine
Journal of the American Medical Association (JAMA)
Journal of the American Medical Informatics Association (JAMIA)
Journal of Applied Social Science
Journal of Applied Sociology
Journal of General Internal Medicine
Journal of the American Gerontological Association
Journal of Clinical Outcomes Management
Journal of Critical Care
Journal of Patient Safety
Journal of Sociological Practice
New England Journal of Medicine
Pediatrics
Pharmacoepidemiology and Drug Safety
Sociological Forum
Sociological Quarterly
Swedish Federation of Medical Informatics
Western Journal of Nursing Research
Administrative Science Quarterly
American Journal of Managed Care
American Sociological Review
Annals of Internal Medicine
Annals of Emergency Medicine
Archives of Internal Medicine
Contemporary Sociology
Critical Care Medicine
Growth and Change: Public, Urban and Regional Policy
Health Policy
Health Affairs
Health Informatics Journal
International Journal for Quality in Health Care
International Journal of Clinical Practice
International Journal of Medical Informatics
Quality and Safety in Health Care, the BMJ Group

# PUBLICATIONS

## PEER-REVIEWED PUBLICATIONS

Adelman, J. S., Berger, M. A., Rai, A., Galanter, W. L., Lambert, B. L., Schiff, G. D., Vawdrey, D. K., Green, R. A., Salmasian, H., **Ross Koppel,** Schechter, C. B., Applebaum, J. R., and Southern, W. N. (2017).
> A national survey assessing the number of records allowed open in electronic health records at hospitals and ambulatory sites. *Journal of American Medical Informatics Association.*

Soumerai, S., and **Ross Koppel.** (2017).
> The Reliability of Instrumental Variables in Health Care Effectiveness Research: Less Is More Article. *Health Services Research*, *52*(1), 9-15.

Soumerai, S., **Ross Koppel,**, and Ceccarelli, R. (2016).
> False Dichotomies and Health Policy Research Designs: Randomized Trials Are Not Always the Answer. *Journal of General Internal Medicine.*

Amato, M. G., Salazar, A., Hickman, T. T., Quist, A. J., Volk, L. A., Wright, A., McEvoy, D., Galanter, W. L., **Ross Koppel,**, Loudin, B., Adelman, J., McGreevey, Iii, J.D., Smith, D. H., Bates, D. W., and Schiff, G. D. (2016).
> Computerized prescriber order entry–related patient safety reports: analysis of 2522 medication errors. *Journal of the American Medical Informatics Association*, 1-6.

B. Korbar, J. Blythe, **Ross Koppel,** V. Kothari, and S. Smith. (2016)
> Validating Agent-Based Modeling of Human Password Behavior. *Proceedings of the AAAI Workshop on Artificial Intelligence for Cyber Security.*

Schiff, G. D., Amato, M. G., Eguale, T., Boehne, J. J., Wright, A., **Ross Koppel,** Rashidee, A. H., Elson, R. B., Whitney, D. L.,Thach, T. T., Bates, D. W., and Seger, A. C. (2015).
> Computerised physician order entry-related medication errors: analysis of reported errors and vulnerability testing of current systems. *BMJ Quality Safety Online*, *24*(4), 264-271.

Kuziemsky, C., Adams, M. B., Kaplan. B., Ravvaz, K., and **Ross Koppel**. (2015).
> What Medical Informaticians Do With and Think About an International Medical Informatics Listserv: Member Survey Preliminary Findings. *Studies of Health Technology Informatics*, *216*, 1124.

Thimbleby, H., and **Ross Koppel.** (2015).
> The Healthtech Declaration. *IEEE Security & Privacy*, *13*(6), 82-84.

**Ross Koppel.** (2015).
> The health information technology safety framework: building great structures on vast voids.  *BMJ Quality and Safety*, 1-3.

Ravvaz, K., Kuziemsky, C., **Ross Koppel**, Kaplan, B., Adams, S. A., & Adams, M. B. (2015). AMIA members' "vital signs": what the HIT implementation listserv says about goals for AMIA and for medical informatics. *AMIA Annual Symposium Proceedings, 2015*, 1067–1075.

**Ross Koppel.** (2015).
Two wrongs do not make a right: Flaws in alternatives to fee-for-service payment plans do not mean fee-for-service is a good solution to rising prices. *International Journal of Health Policy and Management, 4*(9), 611-612.

**Ross Koppel,** and Lehmann, C. U. (2015).
Implications of an Emerging EHR Monoculture for Hospitals and Healthcare Systems: An analysis of Epic's market power. *Journal of American Medical Informatics Association*, *22*, 465-471.

Riskin, L., **Ross Koppel,** and Riskin, D. (2015).
Re-examining health IT policy: what will it take to derive value from our investment? *Journal of American Medical Informatics Association*, *22*, 459-464.

**Ross Koppel.** (2014).
Bar-Coded Medication Administration Brings Trade-offs Even with Humane Automation and Lean Approaches. *The Joint Commission Journal on Quality and Patient Safety*, *40*(8), 339-340.

**Ross Koppel.** (2014).
Illusions and Delusions of Cut, Pasted, and Cloned Notes Ephemeral Reality and Pixel Prevarications. *Chest*, *145*(3), 444-445.

**Ross Koppel.** (2013).
Demanding Utility From Health Information Technology. Editorial. *Annals of Internal Medicine, 158*(11), 845-846.

Blythe, J., **Ross Koppel,** Smith, S. (2013).
Circumvention of security: good users do bad things*. IEEE Security and Privacy/ Copublished by the IEEE Computer and Reliability Societies*, *11*(5), 80-83.

Smith, S. W., and **Ross Koppel.** (2013).
Healthcare information technology's relativity problems: a typology of how patients' physical reality, clinicians' mental models, and healthcare information technology differ. Published ahead of Print. *Journal of American Medical Informatics Association*, *21*(1), 117-31.

Geissbuhler, A., Hammond, W. E., Hasman, A., Hussein, R., **Ross Koppel,** Kulikowski, C. A., Maojo, V., Martin-Sanchez, F., Moorman, P. W., Moura, L. A., de Quirós, F. G. B., Schuemie, M. J., Smith, B., and Talmon, J. (2013).
> Discussion of "Biomedical Informatics: We Are What We Publish. *Methods of Information in Medicine*, *52*(6), 547-62.

**Ross Koppel,** and Soumerai, S. (2013).
> Personal Health Records and Medical Care Use, *Journal of the American Medical Association*, *309*(8), 767-768.

Middleton, B., Bloomrosen, M., Dente, M.A., Hashmat, B., **Ross Koppel,** Overhage, J. M., Payne, T. H., Rosenbloom, S. T., Weaver, C., and Zhang, J. (2013).
> Enhancing Patient Safety and Quality of Care by Improving the Usability of Electronic Health Record Systems: Recommendations from AMIA. *Journal of the American Medical Informatics Association*, *20*(e1), e2-e8.

Schiff, G. D., Seger, A. C., Amato, M., Whitney, D. L., Boehne, J., Rashidee, A., Elson, R. B., **Ross Koppel,** Wright, A., and Bates, D. W. (2012).
> CPOE-related medication errors: Analysis of 10,000 error report narratives and vulnerability testing of current systems. *BMJ Quality and Safety Online, 24,* 264-271. 27(Suppl 2):S136.

**Ross Koppel,** Majumdar, S. R., and Soumerai, S. (2011).
> Electronic Health Records and Quality of Diabetes Care. *New England Journal of Medicine*, *365*(24), 2338-2339.

Peter Jones, David Cronin, Dean Karavite, **Ross Koppel,** Prudence W. Dalrymple, Kai Zheng, Michelle L Rogers, Bob Schumacher (2011).
> Designing for whole systems and services in healthcare. Proceedings of ACM CHI 2011 Conference on Human Factors in Computing Systems, *2011,* 359-362.

**Ross Koppel,** and Kreda, D. A. (2010).
> Healthcare IT usability and suitability for clinical needs: Challenges of design, workflow, and contractual relations. *Studies in Health Technology and Informatics, 157*, 7-14.

Elkin, P. L., Trusko, B. E., **Ross Koppel,** Speroff, T., Mohrer, D., Sakji, S., Gurewitz, I., Tuttle, M., and Brown, S. H. (2010).
> Secondary use of clinical data. *Studies in Health Technology and Informatics*, *155*, 14-29. ·

Goodman, K., Berner, E. S., Dente, M. A., Kaplan, B., **Ross Koppel,** Rucker, D., Sansa, D. V., and Winkelstein, P. (2010).
> Challenges in ethics, safety, best practices, and oversight regarding HIT vendors, their customers, and patients: A report of an AMIA special task force. *Journal of the American Medical Informatics Association*, *18*(1), 77-81.

**Ross Koppel.** (2010).
> Monitoring and Evaluating the Use of Electronic Health Records, *Journal of the American Medical Association, 303*(19), 1918-1919.

**Ross Koppel** and Kreda, D. A. (2009).
Health Care Information Technology, Hospital Responsibilities, and Joint Commission Standards Reply. *Journal of the American Medical Association, 302*(4), 382-383.

**Ross Koppel,** and Kreda, D. (2009).
Healthcare information technology vendors' "Held Harmless clauses —Implications for patients and clinicians. Commentary. *Journal of the American Medical Association, 301*(12), 1276-1278.

Aarts, J., and **Ross Koppel.** (2009).
Implementing CPOE in American, European and Australian hospitals: Lessons from differing social, economic, governance, and workplace environments. *Health Affairs, 28*, 404-414.

**Ross Koppel** and Kreda, D. (2009).
Health care information technology vendors' "hold harmless" clause. *Journal of the American Medical Association*, *301*(12), 1276-1278.

**Ross Koppel,** Wetterneck, T., Telles, J. L., Karsh, and B. T. (2008).
Workarounds to Barcode Medication Administration Systems: Their Occurrences, Causes, And Threats To Patient Safety. *Journal of American Medical Informatics Association, 15*(4), 408-423.

**Ross Koppel,** Leonard, C. E, Localio, A. R., Cohen, A., Auten, R., and Strom, B. L. (2008).
Identifying and Quantifying Medication Errors:  Evaluation Of Rapidly Discontinued Medication Orders Submitted To A Computerized Physician Order Entry System. *Journal of American Medical Informatics Association, 15*(4), 461-465.

**Ross Koppel.** (2008).
Spindles, Snow Drifts, Ludwig Wittgenstein, and the Utility of Sociology**.**  *Journal of Applied Social Science, 2*(2), 1-8.

Harrison, M., **Ross Koppel,** and Bar-Lev, S. (2007).
Unintended Consequences of Information Technologies in Health Care - An Interactive Sociotechnical Analysis.  *Journal of the American Medical Informatics Association*, 14(5), 542-549.

LaRosa, L. A., Fishman, N. O., Lautenbach, E., **Ross Koppel. J.**, Morales, K. H., Linkin, D. R. (2007).
Evaluation of Antimicrobial Therapy Orders Circumventing an Antimicrobial Stewardship Program: Investigating the Strategy of "Stealth Dosing." *Infection Control and Hospital Epidemiology*, *28*(5), 551-556.

**Ross Koppel.** (2006).
Defending computerized physician order entry from its supporters.  *American Journal of Managed Care*, *12*(7), 369-370.

**Ross Koppel.** (2006).
    Presidential Address: Joint Meeting of The Society for Applied Sociology (SAS) and The Sociological Practice Association (SPA): Creating The Association for Applied and Clinical Sociology (AACS). *Journal of Applied Sociology, 23*(1).

**Ross Koppel,** Localio, A. R., Cohen, A., Strom, B. L. (2005).
    Neither Panacea Nor Black Box: Responding to Three Journal of Biomedical Informatics Papers on Computerized Physician Order Entry Systems. *Journal of Biomedical Informatics*, *38*(4), 267-269.

**Ross Koppel,** Metlay, J. P., Cohen, A., Abaluck, B., Localio, A. R., Kimmel, S. E., and Strom, B. L. (2005).
    Role of computerized physician order entry systems in facilitating medication errors. *Journal of the American Medical Association, 293*(10), 1197-1203.

Metlay, J., Cohen, A., Hennessy, S., Kimmel, S., **Ross Koppel,** and Polsky, D. (2005).
    Medication Safety among Older Adults:  Home Based Practice Patterns.  *Journal of the American Geriatrics Society*, *53(*6), 976-982.

**Ross Koppel,** Localio, A. R., Cohen, A., and Strom, B. L. (2005).
    Neither Panacea nor Black Box: Responding to Three *Journal of Biomedical Informatics* Papers on Computerized Physician Order Entry Systems. *Journal of Biomedical Informatics 38*(24), 267-269.

**Ross Koppel.** (2005).
    Computerized Physician Order Entry Systems: The Right Prescription? *Leonard Davis Institute for Health Economic Issue Brief*, *10*(5), 1-4.

**Ross Koppel.** (2005).
    Commentary: What Do We Know About Medication Errors Made Via A CPOE System Versus Those Made Via Handwritten Orders? *Journal of Critical Care, 9*(5), 427.

Shostak, A., **Ross Koppel,** and Perkins, J. (2005).
    Abortion clinics and waiting room men: Sociological insights. *Journal of the Washington Academy of Sciences, 91*(1), 41-54.

Dotzler, R. J. and **Ross Koppel.** (1999).
    What Sociologists do and where they do it the NSF survey of sociologists's work activities and workplaces. *Sociological Practice: A Journal of Clinical and Applied Sociology, 1*, 71.

    Reprinted as chapter: (2001; 2004; 2008). In D. Wysocki (Ed.), *Readings in Social Research Methods, 1ˢᵗ and 2ⁿᵈ and 3ʳᵈ edition*.  Belmont, CA: Wasdworth/Thomson Learning. Referenced below.

**Ross Koppel.** (1997).
Distinguished Contribution to Sociological Practice: Award essay for Irwin Deutscher. *Footnotes: American Sociological Association*, *25*(7), 5.

Also: Essay reprinted in the *Newsletter: Section on Sociological Practice* of the American Sociological Association.

**Ross Koppel,** and Hoffman, A. (1996).
Worker Dislocation Policies in the U.S.: What Should We be Doing? *Annals of the American Academy of Political and Social Science*, *544*, 111-126.

**Ross Koppel.** (1996).
Distinguished Contribution to Sociological Practice: award essay for Albert E. Gollin. *Footnotes*: *American Sociological Association*, *24*(7), 5-6.

**Ross Koppel.** (1993).
Looking for the "Lost Generation" in all the wrong places?: analysis of the survey of graduates from the mid-1970s to mid-1980s. *Footnotes: American Sociological Association, 21*(5), 7.

**Ross Koppel,** Dowdall, G., and Shostak, A. (1986).
Using Computers to teach sociology: a departmental survey (Third of three articles -- Insights on pedagogical software.) *Footnotes: American Sociological Association*, *14*(4), 12.

**Ross Koppel,** Dowdall, G., and Shostak, A. (1985).
Using computers to teach sociology: a departmental survey. (Second of three articles -- Systematic differences in the distribution and perceived need for computers in teaching sociology.) *Footnotes: American Sociological Association, 13*(8), 4.

Dowdall, G., **Ross Koppel,** and Shostak, A. (1985).
Using computers to teach sociology: a departmental survey. (First of three articles -- Faculty and student use of computers and pedagogic software.) *Footnotes: American Sociological Association, 13*(5), 6.

**Ross Koppel,** and Roccili, J. D. (1982).
Urban education and student prospects: policy implications. *Urban Education*, *16,* 4.

Appelbaum, Eileen and **Ross Koppel.** (1978).
Critical Issues in Higher Education. *Conference Proceedings of the Meeting of the Mid-America Association of Educational Opportunity Program Personnel*.

**BOOK CHAPTERS**

**Ross Koppel.** (2016).
Great Promises of Healthcare Information Technology Deliver Less. In C.A. Weaver, M. Ball, G. Kim, and J. Kiel (Eds.), *Healthcare Information Management Systems: Cases, Strategies, and Solutions* (pp. 101-125). Switzerland: Springer International Publishing.

**Ross Koppel.** (2016).
Unintended Consequences: New Problems, New Solutions: Contributions From 2015. In *the International Yearbook of Medical Informatics 2016* (pp. 87-92).

**Ross Koppel,** Smith, S., Blythe, J., and Kothari, V. (2015).
Workarounds to Computer Access in Healthcare Organizations: You Want My Password or a Dead Patient? In K. L. Cortney, A. Kuo, and O. Shabestari (Eds.), *Driving Quality in Informatics: Fulfilling the Promise* (pp. 215-220). Amsterdam: IOS press.

**Ross Koppel.** (2013).
Keynote Chapter: Is HIT evidenced-based? In *International Medical Informatics Yearbook 2013* (pp. 7-12). Stuttgart: Schattauer Publishers.

**Ross Koppel.** (2013).
Forward. In J. Leviss, P. Charney, and C. Corbit (Eds.), *H.I.T. or Miss: H.I.T. or Miss: Lessons Learned from Health Information Technology Implementations*. Chicago: AHIMA Press.

**Ross Koppel,** and Telles, J. L. (2012).
Role of Healthcare Information Technology in Handoffs. In K. L. Courtney et al. (Eds.), *Enabling Health and Healthcare through ICT* (pp. 21-27). Amsterdam:  IOS Press.

Harrison, M., and **Ross Koppel.** (2008).
Interactive Sociotechnical Analysis –Identifying and Coping with Unintended Consequences of IT Implementation. In K. Khoumbati,  Y. K. Dwivedi, A. Srivastava, and B. Lal (Eds.), *Handbook of Research on Advances in Health Informatics and Electronic Healthcare Applications: Global Adoption and Impact of Information Communication Technologies* (pp. 33-51). Hershey: Medical Information Science Reference.

Dotzler, R. J. and **Ross Koppel.** (2001; 2004; 2008).
What Sociologists do and where they do it the NSF survey of sociologists's work activities and workplaces. This is a reprint of an article in *Sociological Practice: A Journal of Clinical and Applied Sociology,*( In D. Wysocki (Ed.), *Readings in Social Research Methods, 1ˢᵗ and 2ⁿᵈ and 3ʳᵈ edition*.  Belmont, CA: Wasdworth/Thomson Learning.

**Ross Koppel.** (2003).
Modest Steps Toward An Ideal World: Sociological Practice And Utopia. In A. Shostak (Ed.), *Viable Utopian Ideas: Shaping a Better World.* Armonk: M. E. Sharpe.

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American Public Policy: Formation and Implementation.. In R. Straus (Ed.), *Using Sociology: An Introduction from a Clinical and Applied Perspective* (3rd ed.). Lanham: Rowman & Littlefield. (Coauthored earlier version in 2nd edition with Thomas Rice. See below)

Iutcovich, J., Johnson, J., **Ross Koppel,** and Langan, F. (2002).
Professional development and the quality of child care: An assessment of Pennsylvania's child care training system. In S. Reifel and M. H. Brown (Eds.), *Advances in Early Education and Day Care: Early Education and Care, and Reconceptualizing Play* (Vol. 11, pp. 115-168). Greenwich, CT: JAI Press, Inc.

**Ross Koppel.** (2001).
Evaluation. In J. Bruhn and H. M. Rebach (Eds.), *Handbook of Clinical Sociology* (2nd ed., pp. 225-250). New York, NY: Plenum Press.

**Ross Koppel.** (2001).
An applied sociologist reflects on the uses and abuses of utopian thought. In A. B. Shostak (Ed.), *Utopian Thinking in Sociology: Creating the Good Society*. Washington, D.C.: American Sociological Association.

**Ross Koppel.** (1996).
Infant Industry: Marketing to New Parents. Chapter in *Private Sociology: Unsparing Reflection, Uncommon Gains*. Arthur B. Shostak, Editor. New York: General Hall, Inc. Publisher
Also reprinted: **Ross Koppel.** (1996). In *Social Insight: Knowledge at Work*. Journal of the Society for Applied Sociology.

**Ross Koppel.** and Rice, T. J. (1994).
American Public Policy: Formation and Implementation. In R. Straus (Ed.), *Using Sociology: An Introduction from a Clinical and Applied Perspective* (2nd ed.). Dix Hills: General Hall.

**Ross Koppel.** (1994).
The Impact of Integrated Hospital Computer Systems on Organizations and Workers. In H. Salzman and R. Lerman (Eds.), *Software by Design: Shaping Technology and The Workplace*. New York: Oxford University Press.

**Ross Koppel.** (1994).
Medical Magic: Systems Design and Medical Practice in a Hospital. In H. Salzman and R. Lerman (Eds.), *Software by Design: Shaping Technology and The Workplace*. New York: Oxford University Press.

**Ross Koppel,** Appelbaum, E. and Albin, P. (1987).
Implications of Workplace Technology: Control, Organization of Work and the Occupational Structure. In R. L. Simpson and I. H. Simpson (Eds.), *Research in the Sociology of Work* (Vol. 4). Greenwich, CT: JAI Press.
Also reprinted as chapter: **Ross Koppel,** Appelbaum, E. and Albin, P. (1987). In Congress of The United States, Office of Technology Assessment, *International Competition in Services: Banking, Building, Software, Know-How,* Washington, D.C.: Government Printing Office.

## BOOKS

Sinsky, C. A., Hess, J., Karsh, B., Keller, J. P., **Koppel R**. (2012).
*Comparative user experiences of health IT products: How user experiences would be reported and used.* Washington, D.C.: Institute of Medicine.

**Ross Koppel.** and Gordon, S. (2012).
*First, Do Less Harm: Confronting the Inconvenient Problems of Patient Safety.* Ithaca, NY: Cornell University Press

Lune, H., Pumar, E., **Ross Koppel** (Eds.). (2009).
*Perspectives in Social Research Methods and Analysis.* Los Angeles, CA: Sage Publications.

**Ross Koppel.** (2002).
*Alzheimer's Disease: The Cost to U.S. Businesses in 2002.* Washington, D.C.: The Alzheimer's Association. (New and revised edition of 1998 publication.)

Sklar, H., Mykyta, L., Wefald, S., Brand, R. and **Ross Koppel.** (2001).
*Raise the Floor: Wages and Policies that Work for All of Us.* New York, NY: South End Press. (Note: Brand's participation listed as "Robert Brand at Solutions for Progress;" Koppel's participation listed as "Ross Koppel at Social Research Corporation.")

**Ross Koppel.** (1998).
*Alzheimer's Cost to U.S. Business.* Washington, D.C.: The Alzheimer's Association.

Bailey, T., **Ross Koppel,** and Waldinger, R. (1994).
*Educating for All Aspects of the Industry: Overcoming Barriers to Broad-based Training.* National Center for Research in Vocational Education. Berkeley, CA : [Washington, DC]: National Center for Research in Vocational Education, Graduate School of Education, University of California, Berkeley; U.S. Dept. of Education, Office of Educational Research and Improvement, Educational Resources Information Center.

Appelbaum, E., Albin, P. and **Ross Koppel.** (1987).
*International Competition in the Service Industries: Impacts of Technological Change and International Trade on U.S. Employment.* Report to the Office of Technology Assessment, U.S. Congress.

Also issued as contribution to the book, *International Competition in Services: Banking, Building, Software, Know-How.* Congress of The United States, Office of Technology Assessment, Washington, D.C.: Government Printing Office. 1987

Also issued as "Congressional Summary" of above.

Iutcovich, Joyce, Richard Fiene, James Johnson, **Ross Koppel,** Francine Langan (1997).
*Investing In Our Children's Future: The Path to Quality Child Care through the Pennsylvania Child Care/Early Childhood Development Training System*.  Erie, PA: Keystone University Research Corporation.
(Also re-edited and written as journal article--see above)

Andrisani, P., Appelbaum, E., **Ross Koppel,** and Milvus, R. (1978).
*Work Attitudes and Labor Market Experience: Evidence from the National Longitudinal Surveys*.  New York: Praeger Publishers.

Also issued as a *Report to the U.S. Department of Labor*, Manpower Administration, 1978.
Also issued in condensed form by the U.S. Department of Labor, R & D Monograph 60, *Work Attitudes and Work Experience: The Impact of Attitudes on Behavior*, 1979.

## OTHER PUBLICATIONS

**Ross Koppel.** (1985).
Chartering: marketing a hidden industry.  *Charter Industry Trade News*. (July/August).

**OP-EDS AND BLOGS  (Partial List)**

**Ross Koppel** and Stephen Soumerai  (2018 March 14)
> Dear CMS Administrator Verma: Response to Ms. Verma's keynote lecture to HIMSS. *The Health Care Blog*

**Ross Koppel** and Martinez, J. (2017, July 14).
> The Most Important Questions About the GOP's Health Plan Go Beyond Insurance and Deficits. *The Health Care Blog.*

Soumerai, S. and **Ross Koppel.** (2017, June 14).
> Don't Let Weak Research Influence Policies with Life and Death Consequences. *The Health Care Blog.*

Soumerai, S. and **Ross Koppel.** (2017, June 7).
> How bad science can lead to bad science journalism — and bad policy. *The Washington Post.*

**Ross Koppel**, and Thimbleby, H. (2017, May 14).
Lessons From the 100 Nation Ransomware Attack. *The Health Care Blog.*

Soumerai, S. and **Ross Koppel.** (2016, December 2).
> National health policy shouldn't be based on flip-flopping science. *STAT News.*

Soumerai, S. and **Ross Koppel.** (2013, July 17).
> More Work Is Needed on the Safety and Efficacy of Healthcare Information Technology. *The HealthCare Blog.*

Walker, J. and **R Koppel**. (2016, September 23).
> For Healthcare Cybersecurity the Whole is Weaker than the Sum of the Parts. *The Healthcare Blog.*

**Ross Koppel** and Gordon, S. (2014, October 14).
> Learn, Don't Blame, After Dallas Hospital's Ebola Diagnostic Failure. *Dallas Morning News.*

Soumerai, S. and **Ross Koppel**. (2012, September 17).
> A Major Glitch for Digitized Health-Care Records. *The Washington Post.*

**Ross Koppel** (2011, August 11)
> Google Gave Up On Electronic Personal Health Records, But We Shouldn't. *KevinMD.*

**BOOK REVIEWS**

**Ross Koppel.** (2013, March 8).
[Review of the book *After Tobacco: What Would Happen If Americans Stopped Smoking?,* by P. Bearman, K. M. Neckerman and L. Wright]. Contemporary Sociology, 42(2), 211.

**Ross Koppel.** (2012, January 12).
Public Policy in Pursuit of Private Happiness. [Review of the book *The Politics of Happiness: What Government Can Learn from the New Research on Well-Being*, by D. Bok]. *Contemporary Sociology, 41*(1), 49–52.

Also published in France as**: Ross Koppel,** and Villette, M. (2012).
Une politique du bonheur est-elle possible? A propos de The Politics of Happiness: What Government Can Learn From the New Research on Well-Being, par Derek Bok. *Gerer et Comprendre*, *108*(2), 85-87.

**Ross Koppel.** (2005, September).
The Invention of the Risk Factor: Insurance Companies and the Creation of Public Health Programs and Modern Medicine. [Review of the book *Public Health and the Risk Factor: A History of an Uneven Medical Revolution by W. G. Rothstein*]. *Contemporary* Sociology, 34(5), 465-470.

**Ross Koppel.** (1989, March).
[Review of the book *New Office Information Technology: Human and Managerial Implications* by R. J. Long]. *Administrative Science Quarterly*, *34*(1), 139-141.

**Ross Koppel.** (1989, July).
[Review of the book *The Process of Technological Change: New Technology and Social Choice in the Workplace* by J. Clark, I. McLoughlin, H. Rose, and R. King]. *Contemporary Sociology*.

**SOFTWARE DEVELOPED AND DISTRIBUTED; ELECTRONIC and FILM MEDIA**

Hundreds of interviews with the national and international newspapers, magazines, TV and radio programs. 1998 to present.

Zheng, K. and **Ross Koppel**. (October 2016).
*Latest Research on Health Information Technology's Unintended Consequences*. [Webinar]. AMIA CIS and Implementation Working Groups Webinar.

**Ross Koppel** and Gordon, S. (2012-2013).
43 Interviews on national and local radio about our book: *First Do Less Harm: Confronting the Inconvenient problems of Patient Safety*. Cornell University Press.

Jones, S. S., **Ross Koppel**, Ridgely, M. S., Palen, T. E., Wu, S. and Harrison, M. I. (2011).
*Guide to Reducing Unintended Consequences of Electronic Health Records* Prepared by RAND Corporation under Contract No. HHSA290200600017I, Task Order #5. Agency for Healthcare Research and Quality (AHRQ). Rockville, MD. August, 2011. Created as website first hosted by AHRQ, then by ONC. Still active.

**Ross Koppel** (2009).
*Commentary on EMR Mistaken Identity*, in AHRQ Morbidity and Mortality Reports, edited by Robert Wachter.

**Ross Koppel.** (1997).
*Understanding group forms.* [Script outline]. Bala Creative Group.

**Ross Koppel.** (1991).
Script for documentary video on Women's Medical Services in the Philadelphia area.

**Ross Koppel.** (1989).
*Work and Leisure in the Next Century: Philadelphia's Future.* Part of a WCAU-TV News Special. WCAU-TV, a Division of CBS Television, Inc.

**Ross Koppel** (1989, 1992).
The Future of Work and Technology. Radio program ("Radio Times") on National Public Radio, Philadelphia. WHY-FM.

**Ross Koppel**, Dowdall, G., and Shostak, A. B. (1987).
*Socio-Graphics: Educational Software for Sociology: Distribution of Income and Wealth* (with a Manual, Discussion and Suggested Readings, by Ross Koppel). [Software]. New York, NY: Harper and Row, Publishers, Inc. (Software used on over 60% of American College Campuses)

**Ross Koppel** and Sheroman, J. (Interviewer) (1988).
Four TV programs on ethics in social research and sociological practice. (Programs part of ASA curriculum on ethics and applied sociology.)

**INVITED PRESENTATIONS**  (Partial list)

**Ross Koppel** and Kuziemsky, C.
>Interface Usability Across and Within EHR Vendors and Medical Settings: The Often Unexamined Need for Interface Similarities.. University of Victoria ITCH  2017 Conference, Victoria, BC, February 2017.

**Ross Koppel.**
>Unintended consequences of digital health: the good, the bad, and the ugly**.** UK E-Health Week. Keynote Lecture. London, England, May 2017.

**Ross Koppel.**
>Making patients safer, making EHRs safer.  "The nightmare is real: when digital health goes wrong." Keynote Lecture. UK E-Health Week, London, England, May 2017.

Schaper, L., Kinnear, A., Scott, P., Dwelly, J., **Ross Koppel,** and Lehmann, C.
>CIOs and CCIOs are the new rock stars – global icons assemble. Panelist. UK E-Health Week. London, England, May 2017.

Senathirajah, Y., Kushniruk, A., Patrick, J., **Ross Koppel,** and Borycki, E.
>Immediate Adaptability. Panelist. iHealth Clinical Informatics Conference, Philadelphia, PA, May 2017.

Kothari, V., **Ross Koppel,** Blythe, J., and Smith, S.
>Password Logbooks and What Their Amazon Reviews Reveal About Their Users' Motivations, Beliefs, and Behaviors. Paper. Internet Society European Workshop on Usable Security 2017, Paris, FR, April 2017.

Smith, S., **Ross Koppel,** Blythe, J., and Kothari, V.
>Flawed Mental Models Lead to Bad Cybersecurity Decisions: Let's Do a Better Job! Poster. Symposium and Bootcamp in the Science of Security (HotSoS 2017), Dallas, TX, April 2017.

Blythe,J., **Ross Koppel,** Smith, S., Kothari, V., Harmon, D., and Novak, C.
>A Cross-Disciplinary Study of User Circumvention of Security. Presentation. Monthly UIUC/R2 Presentation, March 2017.

**Ross Koppel.**
>Understanding Circumvention of Cybersecurity Authentication: Ridiculous Rules, Reasonable and Unreasonable Responses, and User Rationales.  Presentation. The joint NSF/intel project on Cybersecurity and The Internet of Things, Hillsboro, OR, 2017.

**Ross Koppel.** and Kuziemsky, C.
>Usability across Health Information Technology Systems: Searching for Commonalities and Consistency. Presentation. Medical Informatics Europe Conference. Manchester, UK, April 2017.

Smith, S., **Ross Koppel,** Blythe, J., and Kothari, V.
> Analysis of Two Parallel Surveys on Cybersecurity: Users and Security Administrators — Notable Similarities and Differences. Poster. Symposium and Bootcamp in the Science of Security, Dallas, TX, April 2017.

Blythe, J., Smith, S., **Ross Koppel,** Novak, C., and Kothari, V.
> FARM: Finding the Appropriate level of Realism for Modeling. Poster. Symposium and Bootcamp in the Science of Security, Dallas, TX, April 2017.

**Ross Koppel,** Petersilge, C., Garriott, K., and O'Brien, A.
> Pandemic Issues of Image Management: Implicit Risks in Security and Patient Care. Healthcare Information and Management Systems Society 2017, February 2017.

**Ross Koppel,** and Kuziemsky, C.
> Interface Usability Across and Within EHR Vendors and Medical Settings: The Often Unexamined Need for Interface Similarities. Presentation. Information Technology and Communications in Health, Victoria, BC, February 2017.

Smith, S., **Ross Koppel,** Blythe, J., Kothari, V.
> Reasons for Cybersecurity Circumvention: A Study and a Model. NSA SoS Quarterly Meeting. 2016

**Ross Koppel.**
> *Is Healthcare Information Technology Evidence-Based?* Grand Rounds to the ONC. Also streamed to viewers in the USA via HHS feed.   2016

Das, S., Knijnenburg, B., **Ross Koppel,** Wash, R., McCoy, D.
> Panel: Individuals and Norms. Computing community consortium Catalyst, Sociotechnical Cybersecurity Workshop, Hyattsville, MD.  2016

Korbar, B., Blythe, J., **Ross Koppel,** Kothari, V. and Smith, S.
>  "Validating an Agent-Based Model of Human Password Behavior." The AAAI-16 Workshop on Artificial Intelligence for Cyber Security (AICS). February 2016.

**Ross Koppel,** Blythe, J., Kothari, V., Smith, S.,
> "Beliefs about Cybersecurity Rules and Passwords: A Comparison of Two Survey Samples of Cybersecurity Professionals Vs. Regular Users." SOUPS 2016 Security Fatigue Workshop.  2016.

**Ross Koppel,** Kothari, V., Smith, S., and Blythe, J.
> Beyond Pleading With or Restricting Users to Achieve Cyber Security Goals: Approaches to Understanding and Responding to Circumvention. CRA CCC Sociotechnical Cybersecurity Workshop, College Park, MD.  2016

Blythe, J., Novak, C., Kothari, V., **Ross Koppel,** and Smith, S.
> Modeling Human Security Behavior: Recent Results on Understanding Compliance. NSA SoS Quarterly Meeting, Laurel, MD. 2016

**Ross Koppel.**
High Promises and Deep Frustrations of Healthcare Information Technology: *Why are Medical Informatics' User Interfaces 20 Years Behind Your 10-Year- Old Cellphone's Usability?* SUNY Buffalo 2016

**Ross Koppel,** Harmon, D., Smith, S., Blythe, J. and Kothari, V.
Beliefs about Cybersecurity Rules and Passwords: Comparing Two Survey Samples of Cybersecurity Professionals and General Users and Future Data Collection Experiments. Poster. NSA SoS Quarterly Meeting, Laurel, MD. 2016

**Ross Koppel.**
Standards and Data Standards: Key To The Industrial Revolution And To Healthcare IT Success. Clinical Terminology Shock and Awe, SUNY Buffalo, Getzville, NY. 2016

Blythe, J., Kothari, V., **Ross Koppel.**, and Smith, S.
Modeling Human Security Behavior: Recent Results on Understanding Compliance. NSA SoS Quarterly Meeting. 2016

**Ross Koppel,** Blythe, J., Kothari, V., Smith, S.
Beliefs about Cybersecurity Rules and Passwords: A Comparison of Two Survey Samples of Cybersecurity Professionals Versus Regular Users. NSA SoS Quarterly Meeting. 2016

Moen, A., Chronaki, C., **Ross Koppel,** Hurlen, P.
Information to the point of action–opportunities for medication management? MedInfo 2015, Brazil.

**Ross Koppel,** Smith, S., Blythe, J., and Kothari, V.
Workarounds to Computer Access in Healthcare Organizations: You Want My Password or a Dead Patient? *Information Technology and Communications in Health (ITCH 2015)*, 2015.

Kothari, V. Blythe, J, Smith, S. and **Ross Koppel.**
"Measuring the Security Impacts of Password Policies Using Cognitive Behavioral Agent-Based Modeling", Symposium and Bootcamp on the Science of Security (HotSoS 2015), ACM. 2015.

Smith, S., **Ross Koppel,** Blythe, J. and Kothari, V.
"Mismorphism: A Semiotic Model of Computer Security Circumvention (Poster Abstract)", Symposium and Bootcamp on the Science of Security (HotSoS 2015), ACM, April 2015.

Smith, S., **Ross Koppel,** Blythe, J. and Kothari, V.
"Mismorphism: a Semiotic Model of Computer Security Circumvention", 9th International Symposium on Human Aspects of Information Security and Assurance, July 2015.

Blythe, J., Kothari, V., **Ross Koppel.**, and Smith, S.

A Toolkit for Exploring the Impact of Human Behavior on Cybersecurity through Multi-agent Simulations, Society for Risk Analysis. Annual Meeting 2015

Kothari, V. Blythe, J, **Ross Koppel,** and Smith, S.
Agent-based modeling to analyze user behavior and computer security, Symposium on the Science of Security, HotSOS 2015.


**Ross Koppel,** and Phelps, D.
Applying Sociological and Ethnographic Methods to Understand Circumvention of Cyber Security: Why Does Everyone Do It, and What Does It Say about People and Systems? Association for Applied and Clinical Sociology 2015 Annual Conference, Montgomery, AL. 2015

**Ross Koppel.**
Progress, Problems, Publications, Plans and Promises of the Group Studying Passwords and Cyber Security Circumvention. NSA SoS Quarterly Meeting. 2015

Bates, D. W., Sheikh, A., **Ross Koppel,** Sittig, D., and Maddern, G.
Health Information Technology is already improving healthcare safety and current regulation around it is sufficient. Live stream debate. The International Society for Quality in Health Care (ISQua). 2015

**Ross Koppel,** Smith, S. and Thimbleby, H.
What you See Is What You See: Misinforming Displays in Electronic Health Care Records and Medical Devices. Human Factors and Ergonomics in Health Care: Improving Outcomes (HFES), Baltimore, MD. 2015

**Ross Koppel**, and Thimbleby, H.
The challenge of computerisation in hospitals 'first do less harm'. The Royal College of Physicians of Edinburgh, Edinburgh, UK. 2015

**Ross Koppel.**
Innovation, HIT and Cybersecurity: Uneasy Bedmates. Digital Health Assembly Open Innovation Conference, Cardiff, UK. 2015.

**Ross Koppel.**
Healthcare Software Usability and the Influence on Compliance with Cybersecurity Rules. Invited seminar. Wales Health Trust at Prince of Wales Hospital, Sydney, AU. 2015

**Ross Koppel**
Healthcare Information Exchanges: Compromises, Complaints, Cooperation, Cooptation, & Clinicians. Winter 2015 HIE Community Roundtable Webinar. 2015.

Adams, M. B., Kaplan, B., **Ross Koppel,** Kuziemsky, C., and Ravvaz, K.
From Sentences to Sense-Making, From Utterances to Clinical Understanding, From Narratives to Structured Data: A tutorial on Qualitative Data Coding Concepts, Methods and Tools. AMIA Clinical Information Systems WG. 2015

McCray, A. T., Glaser, J., **Ross Koppel,** Langlotz, C. P., and Silverstein, J.
Health IT vendors and the academic community: The 2014 ACMI Debate. Panelist. The American Medical Informatics Association Annual Symposium, Washington, DC. 2014

Kothari, V. Blythe, J, **Ross Koppel,** and Smith, S.
"Agent-Based Modeling of User Circumvention of Security", 1st International Workshop on Agents and CyberSecurity (ACySE), Paris, France, May 5, 2014.

Blythe, J., **Ross Koppel,** Kothari, V., and Smith, S.
Workarounds of computer security evasions in healthcare settings: circumvention as the norm, HealthTech USENIX Summit 2014.

**Ross Koppel,** Blythe, J., and Smith, S.
Ethnography of Computer Security Evasions: workarounds to cyber controls Ethnography: Trends, Traverses and Traditions, European Sociological Association, 2014.

Raphaely, R. C., Gelzer, R. D., **Ross Koppel,** and McGovern, M.
Panelist. The Matthew J. Ryan Law and Public Policy Forum, Villanova, PA. 2014

**Ross Koppel.**
Using Sociology to confront a three trillion dollar industry: Healthcare IT vs. reality and hype. Association for Applied and Clinical Sociology, 2014 Annual Conference, Pittsburgh, PA. 2014

**Ross Koppel.**
Software Loved by its Vendors and Disliked by 70% of its Users: Two Trillion Dollars of Healthcare Information Technology's Promises and Disappointments. Keynote speaker. USENIX Summit on Health Information Technologies, San Diego, CA. 2014

Blythe, J., **Ross Koppel,** Kothari, V., and Smith, S.
Ethnography of Computer Security Evasions in Healthcare Settings: Circumvention as the Norm. USENIX Summit on Health Information Technologies, San Diego, CA. 2014

**Ross Koppel.**
Healthcare IT and its Challenges: Security, Usability, Cost, Inter-operability, & Non-Responsiveness. San Diego, CA. 2014

**Ross Koppel.**
Why We Don't Have The Healthcare Information Technology We Deserve? Compromises, Complaints, Cooperation, Cooptation, And Clinicians: An Alternative Agenda To Improve Clinical Efficiency And Patient Safety. University of Utah School of Medicine Biomedical Informatics Seminar Series, Salt Lake City, UT. 2014

Brouillard, C. R., **Ross Koppel,** and Melnik, T.
Managing ESI within Health Information Systems—Now They've Gone Mobile. American Bar Association's Information Governance, Electronic Discovery and Digital Evidence National Institute, Tampa, FL. 2014

Dente, M., Gelzer, A., **Ross Koppel,** Craven, C. K., and Aarts, Jos.
Imaginary and Real Costs of Implementing HIT. Panelist. The American Medical Informatics Association Annual Symposium, Washington, DC. 2014.

Balas, E. A., Elkin, P. L., and **Ross Koppel.**
Technology Transfer from Biomedical Research to Clinical Practice: Measuring Innovation Performance. Panelist. The American Medical Informatics Association Annual Symposium, Washington, DC. 2014

Amato, M. G., Seger, A. C., Wright, A., **Ross Koppel,** Rashidee, A., Elson, R., Whitney, D. L., Thach, T., Bates, D. W., and Schiff, G.
Assessment of the Quality of Computerized Physician Order Entry (CPOE)-Related Medication Error Reports in a Large Medication Error Database. American Medical Informatics Association Annual Symposium, Washington, DC.  2014

**Ross Koppel.**
Award Speech for Harry Perlstadt. The Distinguished Career American Sociological Association Major Award for the Practice of Sociology. 2014

Phelps, D., **Ross Koppel,** and Straus, R.
Certification Demonstration Session. Association for Applied and Clinical Sociology, 2013 Annual Conference, Portland, OR.  2013

**Ross Koppel.**
Pushing Healthcare Information Technology (HIT): Examining the Ethics and consequences of U.S. policy and HIT vendor practices. University of North Carolina Chapel Hill Center for Bioethics Research Ethics Grand Rounds, Chapel Hill, NC. 2013

**Ross Koppel.**
How to Make Healthcare IT More Useful to Clinicians and Meaningful for Clinical Care. Duke Center for Health Informatics, Informatics Research Seminar, Durham, NC. 2013

**Ross Koppel.**
Why is HIT so frustrating, and how can we make it less so? Summer Institute in Nursing Informatics, Baltimore, MD. 2013

Thimbleby, H. and **Ross Koppel.**  Unsafe in Any Bed. Swansea University Festival of Research, Swansea, UK. 2013

Gelzer, R. D., **Ross Koppel,** Brouillard, C. P., and Melnik, T.
Managing ESI Health Information Systems. 2014 ABA Information Governance, Electronic Discovery and Digital Evidence National Institute, Tampa, FL. 2013

Kuperman, G., Solomon, H., **Ross Koppel,** Jaffe, C., Mandel, J., and Fridsma, D. B.
Interoperability: Why is it Taking so Darn Long? AMIA Annual Symposium 2012 Session, Chicago, IL. 2012

**Ross Koppel.**
Why Is Smart Technology so Dumb? The Problems with Electronic Health Records for Clinicians and Patients Telfer School of Management, University of Ottawa, Health Systems Research Seminar Series, Ottawa, ON.  2012

**Ross Koppel,** Lyon, E., Kettlitz, R. E., and Steele, S. F.
Enhancing the Position of Applied and Practice Sociology into the Profession of Sociology and in  Society. Panelist. Association for Applied and Clinical Sociology 2012 Annual Conference, Milwaukee, WI.

**Ross Koppel.**
Keynote speaker. Harvard School of Dental Medicine Conference, Boston, MA. 2012

**Ross Koppel.**
HIT, Workarounds and Security NIST. The National Institute of Standards and Technology Computer Security Resource Center, Gaithersburg, MD. 2012

Schlossberg, S., Lee, J., and **Ross Koppel.**
Clinical Systems - Have Access Control Methodologies Kept Pace with Users' Expectations and the Regulatory Environment? Dartmouth Securing Information Technology in Healthcare (SITH2) workshop, Hanover, NH. 2012

**Ross Koppel.**
Why does Healthcare Information Technology Hide Information? School of Biomedical Informatics at the University of Texas Special Seminar, Houston, TX. 2012

**Ross Koppel.**
Meaningful use: Meaning more? Or meaning less? Defining and defying sub-clinical HIT. The National Institute of Standards and Technology's Usability in Health IT: Technical Strategy, Research, and Implementation Workshop, Gaithersburg, MD. 2010

**Ross Koppel.**
First Do No Harm: Ensuring the Safe and Effective Use of Health IT. Agency for Healthcare Research and Quality 2009 Annual Conference, Bethesda, MD. 2009

Chueh, H., Ghouri, A., Kibbe, D., **Ross Koppel,** and Stein, M.
Models for Adoption of Platforms. The Meeting at Harvard on a Health Information Technology Platform, Cambridge, MA. 2009.

**Ross Koppel.**
Presidential Address to the Association for Applied and Clinical Sociology, San Jose, CA. 2006

**TEACHING**

Sociology Department, University of Pennsylvania, 1993-present

Research Methods (32 classes; mean number of students = 40) 1993-2016

Statistics (3 classes; mean number of students = 45) 1999-2015

Field Methods (1 class, 15 students) Plus 4 independent studies 2014

Sociology of Medicine (2 classes; mean number of students = 42) 2012

Sociology of Work (1 class, 32 students) 2001

At Other Schools:

Industrial Relations.  Temple University.  1976.

Sociology.  La Salle College. 1975.

Sociology.  Community College of Philadelphia. 1974.

Sociology (Introduction, American Society, Social Problems).  Temple University.  Fall Semesters: 1970, 1971, 1972.

(The early teaching (1970-1976) was on a part-time basis, as a graduate student)

Professor.  Graduate School of Education, University of Pennsylvania, 2003-2008
Ph.D. courses on research and school-public interaction

Yale National Initiative.
University of Pennsylvania's program to teach teachers statistics  2013

Thomas Jefferson Medical College's Occupational Medicine Residency Program,
Division of Environmental Medicine and Toxicology, 1997-2001

Temple University, 1982
Evaluation Research, Center for Social Policy and Community Development

**RESEARCH SUPERVISION**

**Dissertations and Mentoring**
Served on several Ph.D. thesis committees: Australia, the Netherlands, Denmark, and several universities in the US.

Mentored over 30 students in various projects as independent studies, as interns from the Philadelphia Center, and as a volunteer advisor. Currently I am mentoring Lucy Nebeker, a student at the University of Pennsylvania who is making a documentary about the development and use of HIT. I am also currently mentoring Jasmine Martinez, a Vassar senior who is working with the Philadelphia Center. She is working on the trajectories of changes to EHRs as they are implemented and optimized. She is also working on healthcare policy.

**GRANTS and FELLOWSHIP SUPPORT**

Principal Investigator, National Security Agency Study of Circumvention of Cybersecurity: Science of the Study of Security. University of Pennsylvania, USC, and Dartmouth College. 2013-2015, and 2015-2017. One of three PIs to lead this project. Based at the University of Pennsylvania, Dartmouth College and USC. Total value of Grant: $3.2 million

Senior Investigator, NSF-Intel Joint-funded study of the security of the internet of things (IoT). Study seeks to develop better security of the vast range of sensors and cyber-physical systems. 2 Principal Investigator, University of Pennsylvania section: 2016-2018. I focused on healthcare-related sensors in medical devices and on authentication security—both in formal (hospital) and in personal settings. Total value of project: $3 million

Principal Investigator. FDA-Harvard study of CPOE screens and medication error (FDA funding) 2012-2016. I was the Univ of Penn PI. (There were other PIs at Harvard, Univ. of Illinois, Montefiore Hospital in NYC, and Kaiser Permanente.) Total value of project: $2 million

Principal Investigator, Study of role of hospital workplace and stressors on medication errors. University of Pennsylvania: Funded by Agency for Healthcare Quality Research. 2002-20-17, but work continues. I was the PI for the study on medication errors--one of four projects. Total value of the grant: $7.4 million.

Principal Investigator, Creation of a *Guide to Reducing Unintended Consequences of Electronic Health Records* Prepared by RAND Corporation under Contract No. HHSA290200600017I, Task Order #5. Agency for Healthcare Research and Quality (AHRQ). Rockville, MD. August, 2011. Created as website first hosted by AHRQ, then by ONC. Still active. Co-authors were: S.S. Jones, M.S. Ridgely, T.E. Palen, S. Wu, and M.I. Harrison. 2011 Total value of project: $200,000

Principal Investigator. Study of clinicians' ability to access and upload medical images (e.g., X-rays, MRIs, wound photos, gait analyses, EKGs) for an enterprise-wide system. Funded by Agfa and University of California, Irvine. 2015-2017 Total value of project: $3 million

Senior Investigator, NSF-Penn study of smart alarms and of safe cyber communication within hospitals. University of Pennsylvania 2011-2015.  Total value of project: $2 million

Co-PI, Rand Corporation: Study of unintended consequences of the implementation of healthcare information technology 2010-2012   Total value of project $100,000.

Principal Investigator, Study of Labor-management relations in the electrical contracting industry 2009-2012.  Total value of project $140,000.

Principal Investigator: Study of Boston Transit System Compliance with ADA regulations. A structured field investigation: 950 observations of elderly and disabled bus riders each accompanied by trained researchers. (Case settled at value of $2 billion for disabled transit services.)  2004-2005. Total value of project:  $5 million

Principal Investigator, Life Sciences in the Greater Philadelphia Area: Human Capital-Related Barriers to Growth in Biotechnology, Bioinformatics, Nanotechnology and Pharmaceutical Industries. 2003-2005. Total value of project: $42,000.

Principal Investigator, Nurses and the use of computers in hospitals: Contribution to medication error reduction. 2003-2015. Self-funded.