

Philip E. Rubin

Personal Information:

EMAIL: rubin@haskins.yale.edu
BIRTH DATE: May 22, 1949
MARITAL STATUS: Married (to Joette Katz) with two children
CITIZENSHIP: U.S.A.

Work Addresses:

Haskins Laboratories

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Department of Surgery, Section of Otolaryngology
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Education:

Ph.D. (Experimental Psychology), University of Connecticut, 1975
M.A. (Experimental Psychology), University of Connecticut, 1973
B.A. (Psychology and Linguistics), Brandeis University, 1971

Professional Experience (selected):

2004-present	Chief Executive Officer, Haskins Laboratories
1998-present	Senior Scientist, Haskins Laboratories
1994-present	Professor Adjunct, Yale University School of Medicine, Department of Surgery, Otolaryngology
1992-present	Vice President, Haskins Laboratories
1991-present	Research Affiliate, Department of Psychology, Yale Univ.
2003-2004	Chief Operating Officer, Haskins Laboratories
2000-2003	Director, Division of Behavioral and Cognitive Sciences, National Science Foundation
1998-2000	Chief Operating Officer, Haskins Laboratories
1990-1992	Chief Technical Officer, Haskins Laboratories
1977-1997	Research Staff, Haskins Laboratories
1975-1976	Research Affiliate, Haskins Laboratories
1975-1976	Assistant Professor of Psychology, Univ. of Connecticut

Professional Affiliations:

American Association for the Advancement of Science (AAAS), Fellow
American Psychological Association (APA), Fellow
Association for Psychological Science (APS), Fellow
Acoustical Society of America (ASA), Fellow
Auditory-Visual Speech Association (AVISA), Founding Director
Cognitive Science Society (CSS)
Institute of Electrical and Electronics Engineers (IEEE)
International Speech Communication Association (ISCA)
International Society of Ecological Psychology (ISEP)
Linguistic Society of America (LSA)
Philosophical Society of Washington
Psychonomic Society
Sigma Xi
Society for Neuroscience

Awards and Honors:

Elected to membership in Sigma Xi, Dec. 2008.
Elected as a Fellow of Trumbull College at Yale University, Sep. 2007.
Elected to membership in the Philosophical Society of Washington, Feb. 2007.
Elected to Fellow status in the American Psychological Association, Jan. 2006
“... in recognition of outstanding and unusual contributions to the science and profession of psychology.”
Award for “Commendable Performance ... for his superior leadership of all federal government departments and agencies involved in the protection of human subjects,”
Sep. 2003, from the Human Subjects Research Subcommittee, Committee on Science, National Science and Technology Council, Office of Science and Technology Policy, Executive Office of the President of the United States.
Elected to Fellow status in the American Psychological Society, June 2003, for
“... sustained outstanding achievements in psychological science.”
Elected to the rank of AAAS Fellow in the American Association for the Advancement of Science, Sep. 2002, for “... major contributions to the understanding of human speech processing and the technology of speech analysis.”
Elected as a Fellow in the Acoustical Society of America, June 1999.

Professional and Community Service:

Member, National Research Council Committee on Developing Metrics for Department of Homeland Security Science and Technology Research, Sep. 2009 - present
Chair, National Research Council Steering Committee on Meeting Department of Defense Counterintelligence Needs Through Behavioral and Social Sciences Research, Jan. 2009 - present
Chair, External Nominations Committee, The Federation of Behavioral, Psychological, and Cognitive Sciences, Jan. 2009 - present

Executive Committee member-at-large, The Federation of Behavioral, Psychological, and Cognitive Sciences, Jan. 2009 - present

Haskins Laboratories Board of Directors, Governance Committee, Oct. 2008 - present

Co-leader of Teagle Foundation *Yale University – Haskins Laboratories Collegium on Student Learning* (with Michael Holquist and Kenneth Pugh), June 2008 - present.

Board of Trustees, Les Birkmaier Fund, Bridgeport, CT, July 2007 – present

Ethics Committee, Linguistic Society of America, Oct. 2006 - present

Chair, National Academies Board on Behavioral, Cognitive, and Sensory Sciences, July 2006 – present

Chair, Marketing Committee, *Journal of Empirical Research on Human Research Ethics* (JEHRE), July 2006 - present

Steering Committee, Yale University Whitney Humanities Center “Mind, Brain, Culture, and Consciousness” group, Apr. 2006 - present

Visiting Research Fellow, MARCS Auditory Laboratories, University of Western Sydney, Jan. 2006 - present

Subcommittee of Committee A on Academic Freedom and Tenure, American Association of University Professors, July 2005 – present.

Vice Chairman of the Board, The Discovery Museum and Planetarium, Bridgeport, CT, Sep. 2008 - present

Scientific Advisory Committee, House Ear Institute, June 2006 – June 2007

Nominations Committee, AAAS (American Association for the Advancement of Science), Section Z, Nov. 2005 – Oct. 2008

Chairman of the Board, The Discovery Museum and Planetarium, Bridgeport, CT, June 2005 – Sep. 2008

Member of the Advisory Board the *Journal of Empirical Research on Human Research Ethics* (JEHRE), 2005 - present

Chair, Program Committee, The Discovery Museum and Planetarium Board of Trustees, Bridgeport, CT, Oct. 2004 - June 2005

Board Member and Trustee, The Discovery Museum and Planetarium, Bridgeport, CT, June 2004 - present

Faculty advisor, Yale University Yale University Whitney Humanities Center “Science, Technology and Utopian Visions” working group, May 2004 - present

Faculty advisor, Yale University Interdisciplinary Center for Bioethics, Technology and Ethics working group, May 2004 - present

Member of the Yale University Whitney Humanities Center “Mind, Brain, Culture, and Consciousness” group, Apr. 2004 - present

Participant in the Yale Law School Information Society Project, Feb. 2004 - present

Participant in the Yale University Interdisciplinary Center for Bioethics, 2003 - present

Member of the Yale University Interdisciplinary Center for Bioethics, Technology and Ethics working group, 2003 - present

Member of the NIH-funded Social and Behavioral Sciences Working Group on Human Subjects Protections, Sep. 2002 - present

SACHRP (Secretary’s Advisory Committee on Human Subjects Protections), NSF *ex officio* member, July 2003 – Sep. 2003. Advisory to the Secretary of HHS

Chair of the inter-agency National Science and Technology Council (NSTC) Committee on Science Human Subjects Research Subcommittee (HSRS), under the supervision of the President’s Office of Science and Technology Policy (OSTP), Jan. 2003 – Sep. 2003

Co-chair of the National Science Foundation Human and Social Dynamics priority area Implementation Group (HSDIG), Sep. 2002 – May 2003

Member of the National Science and Technology Council (NSTC) SBE Working Group on Terrorism, under the supervision of the President’s Office of Science and Technology Policy (OSTP), 2002 – Sep. 2003

National Science Board Task Force on International Science and Engineering, Acting Member, Nov. 2001

Member of the National Science Foundation Science and Technology Centers (STC) Coordinating Committee, 2001 – Sep. 2003

Member of the inter-agency National Science and Technology Council (NSTC) Human Subjects Research Subcommittee (HSRS), under the supervision of the President’s Office of Science and Technology Policy (OSTP), 2000 – Sep. 2003

Chair of the NSTC Human Subjects Research Subcommittee, Behavioral and Social Science Working Group (HSRS-BSWG), 2000 – Jan. 2003

NHRPAC (National Human Research Protections Advisory Committee), NSF *ex officio* member, 2000 – Sep. 2002

Founding President and Director, AVISA (Auditory Visual Speech Association), 1998 – 2001

Organizing Committee, AVSP’99 (Auditory-Visual Speech Processing)

Acting Editor, special issue of *Speech Communication*, 1998

Core leader, NIH P-01, “The Nature and Acquisition of the Speech Code and Reading,” 1992 - present

Publisher, *The Desktop Journal*, 1985-1994

Publications:

- Hogden, J., Rubin, P., McDermott, E., Katagiri, S., & Goldstein, L. (2007). Inverting mappings from smooth paths through R^n to paths through R^m : A technique applied to recovering articulation from acoustics. *Speech Communication*, May 2007, Volume 49, Issue 5, 361-383.
- Goldstein, L. and Rubin, P. (2007). Speech: Dances of the Vocal Tract. *Odyssey Magazine*, Jan. 2007, 14-15.
- Rubin, Philip and Sieber, Joan E. (2006). Editorial – Empirical Research on IRBs and Methodologies Usually Associated with Minimal Risk. *Journal of Empirical Research on Human Research Ethics*, Dec. 2006, Vol. 1, Issue 4, 1-4.
- Rubin, P. (2004). NSF reflections. *American Psychological Society Observer*, 17, 20-22.
- Rubin, P. (2003). Introduction. In S. L. Cutter, D. B. Richardson, & T. J. Wilbanks (Eds.), *The Geographical Dimensions of Terrorism*. New York: Routledge.
- Rubin, P. (2002). The regulatory environment for science: Protecting participants in research. In A. H. Teich, S. D. Nelson & S. J. Lita (Eds.), *AAAS Science and Technology Policy Yearbook 2002* (pp. 199-206). Washington, D.C.: American Association for the Advancement of Science.
- Sieber, J. E., Plattner, S. & Rubin, P. (2002). How (Not) to Regulate Social and Behavioral Research. *Professional Ethics Report*, 15, 1-4.
- Remez, R. E., Pardo, J.S., Piorkowski, R. L. & Rubin, P. E. (2001). On the bistability of sinewave analogs of speech. *Psychological Science*, 12, 24-29.
- Yehia, H.C., Rubin, P.E. & Vatikiotis-Bateson, E. (1998). Quantitative association of vocal-tract and facial behavior. *Speech Communication*, 26, 23-24.

- Remez, R., Fellowes, J.M., Pisoni, D.B., Goh, W.D. & Rubin, P.E. (1998). Multimodal perceptual organization of speech: Evidence from tone analogs of spoken utterances. *Speech Communication*, 26, 65-73.
- Rubin, P., & Vatikiotis-Bateson, E. (1998). Talking heads. In D. Burnham, J. Robert-Ribes, & E. Vatikiotis-Bateson (Eds.), *International Conference on Auditory-Visual Speech Processing - AVSP '98* (pp. 231-235). Terrigal, Australia.
- Rubin, P., & Vatikiotis-Bateson, E. (1998). Measuring and modeling speech production in humans. In S.L. Hopp, M. J. Owren & C.S. Evans (Eds.), *Animal Acoustic Communication* (pp. 251-290). New York: Springer-Verlag.
- Saltzman, E., Löfqvist, A., Kay, B., Kinsella-Shaw, J. & Rubin, P. (1998). Dynamics of intergestural timing: A perturbation study of lip-larynx coordination. *Experimental Brain Research*, 123, 412-424.
- Remez, R. E., Van Dyk, J. L., Fellowes, J. M. & Rubin, P. E. (1998). On the perception of qualitative and phonetic similarities of voices. In P. K. Kuhl & L. A. Crum (Eds.), *Proceedings of the 16th International Congress on Acoustics and the 135th Meeting of the Acoustical Society of America, Volume 4* (pp. 2063-2064). New York: Acoustical Society of America.
- Fellowes, J. M., Remez, R. E. & Rubin, P. E. (1997). Perceiving the sex and identity of a talker without natural vocal timbre. *Perception & Psychophysics*, 59, 839-849.
- Remez, R. E., Fellowes, J. M. & Rubin, P. E. (1997). Talker identification based on phonetic information. *Journal of Experimental Psychology: Human Perception and Performance*, 23, 651-656.
- Vatikiotis-Bateson, E., Tiede, M. K., Rubin, P. & Benoît, C. (1997). Visualization of speech production: For better and for worse. *Proceedings of ASVA 97, International Symposium on Simulation, Visualization and Auralization for Acoustic Research and Education*, Tokyo, Japan, April 2-4, 1997, 233-240.
- Yehia, H.C., Rubin, P.E. & Vatikiotis-Bateson, E. (1997). Quantitative association of vocal-tract and facial behavior. *Proceedings of AVSP '97*, Rhodes, Greece, 26-27 Sep. 1997, 41-46.
- Hogden, J., Löfqvist, A., Gracco, V., Rubin, P. & Saltzman, E. (1996). Accurate recovery of articulator positions from acoustics: New conclusions based on human data. *Journal of the Acoustical Society of America*, 100, 1819-1834.
- Hogden, J., Rubin, P. & Saltzman, E. (1996). An unsupervised method for learning to track tongue position from an acoustic signal. *Bulletin Communication Parlée*, 3, 101-116.
- Rubin, P., Saltzman, E., Goldstein, L., McGowan, R, Tiede, M. & Browman, C. (1996). CASY and extensions to the task-dynamic model. *Proceedings of the 4th Speech Production Seminar*, Grenoble, France, 125-128.
- Rubin, Philip E. (1995). HADES: A Case Study of the Development of a Signal Analysis System. In A. Syrdal, R. Bennett & S. L. Greenspan (Eds.), *Applied Speech Technology* (pp.501-520). Boca Raton: CRC Press.
- Saltzman, E., Löfqvist, A., Kinsella-Shaw, J., Kay, B. & Rubin, P. (1995). On the dynamics of temporal patterning in speech. In F. Bell-Berti & L. Raphael (Eds.) *Producing Speech: Contemporary Issues for Katherine Safford Harris* (pp. 469-487). American Institute of Physics, 1995.
- Remez, R. E., Rubin, P. E., Berns, S. M., Pardo, J. S. & Lang, J. M. (1994). On the perceptual organization of speech. *Psychological Review*, 101, 129-156.

- Remez, R. E., & Rubin, P. E. (1993). On the intonation of sinusoidal sentences: Contour and pitch height. *Journal of the Acoustical Society of America*, 94, 1983-1988.
- Saltzman, E., Lofqvist, A., Kinsella-Shaw, J., Rubin, P. E. & Kay, B. (1992). A perturbation study of lip-larynx coordination. In J. J. Ohala, T. M. Nearey, B. L. Derwing, M. M. Hodge & G. E. Wiebe (Eds.), *Proceedings of the International Conference on Spoken Language Processing (ICSLP '92): Addendum* (pp. 19-22). Edmonton, Canada: Priority Printing.
- Saltzman, E., Kay, B., Rubin, P., & Kinsella-Shaw, J. (1991). Dynamics of intergestural timing. *Perilus XIV*, Institute of Linguistics, University of Stockholm, Stockholm, Sweden, 47-56.
- Remez, R. E., & Rubin, P. E. (1990). On the perception of speech from time-varying attributes: Contributions of amplitude variation. *Perception & Psychophysics*, 48, 313-325.
- Whalen, D. H., Wiley, E. R., Rubin, P. E. & Cooper, F. S. (1990). The Haskins Laboratories' pulse code modulation (PCM) system. *Behavior Research Methods, Instruments, & Computers*, 22, 550-559.
- Saltzman, E., Goldstein, L., Browman, C. & Rubin, P. (1988). Dynamics of gestural blending during speech production. *Neural Networks*, Volume 1, Supplement 1, 316.
- Saltzman, E., Goldstein, L., Browman, C., & Rubin, P. (1988). Modeling speech production using dynamic gestural structures. *Journal of the Acoustical Society of America*, 84, S146.
- Remez, R. E., Rubin, P. E., Nygaard, L. C. & Howell, W. A. (1987). Perceptual normalization of vowels produced by sinusoidal voices. *Journal of Experimental Psychology: Human Perception and Performance*, 13, 40-61.
- Saltzman, E., Rubin, P. E., Goldstein, L. & Browman, C. P. (1987). Task-dynamic modeling of interarticulator coordination. *Journal of the Acoustical Society of America*, 82, S15.
- Browman, C. P., Goldstein, L., Kelso, J. A. S., Rubin, P. E. & Saltzman, E. (1984). Articulatory synthesis from underlying dynamics. *Journal of the Acoustical Society of America*, 75, S22.
- Remez, R. E. & Rubin, P. E. (1984). Perception of intonation in sinusoidal sentences. *Perception & Psychophysics*, 35, 429-440.
- Remez, R. E., Rubin, P. E., & Pisoni, D. B. (1983). Coding of the speech spectrum in three time-varying sinusoids. In C. Parkins and S. W. Anderson (Eds.), *Cochlear Protheses* (pp. 485-489). New York: New York Academy of Sciences.
- Remez, R. E. & Rubin, P. E. (1983). The stream of speech. *Scandinavian Journal of Psychology*, 24, 63-66.
- Rubin, P., Baer, T. & Mermelstein, P. (1981). An articulatory synthesizer for perceptual research. *Journal of the Acoustical Society of America*, 70, 321-328.
- Remez, R. E., Rubin, P. E., Pisoni, D. B. & Carrell, T. D. (1981). Speech perception without traditional speech cues. *Science*, 212, 947-950.
- Kelso, J. A. S., Holt, K. G., Rubin, P. & Kugler, P. N. (1981). Patterns of human interlimb coordination emerge from the properties of non-linear, limit-cycle oscillatory processes: theory and data. *Journal of Motor Behavior*, 13, 226-261.
- Fowler, C. A., Rubin, P. E., Remez, R. E. & Turvey, M. T. (1980). Implications for speech production of a general theory of action. In B. Butterworth (Ed.), *Language Production, Vol. I: Speech and Talk* (pp. 373-420). New York: Academic Press.

- Rubin, P.E. (1980). Sinewave synthesis. Internal memorandum. Haskins Laboratories, New Haven, Connecticut.
- Goodman, D., Rubin, P. & Kelso, J. A. S., (1980, May). *The use of minicomputers in motor behavior research*. Invited paper at Annual Conference of the North American Society for the Psychology of Sport and Physical Activity Workshop in Boulder, CO. A generalized system for the capture and analysis of movement data.
- Mermelstein, P., & Rubin, P., (1977). Articulatory synthesis - a tool for the perceptual evaluation of articulatory gestures. In Carre, R., Descout, R. & Wajskop, M. (Eds.), *Articulatory Modeling and Phonetics*. Brussels : G.A.L.F. Groupe de la Communication Parlee.
- Rubin, P., Turvey, M. T. & Van Gelder, P. (1976). Initial phonemes are detected faster in spoken words than in spoken nonwords. *Perception and Psychophysics*, 19, 394-398.

Conference, Symposium, and Community Service Presentations:

- Rubin, P., Ramsay, G., & Vatikiotis-Bateson, E. (2009). Talking heads: Speech synthesis and embodied cognition. Invited presentation. 158th Meeting of the Acoustical Society of America, San Antonio, Texas, Oct. 27, 2009.
- Rubin, P. (2009). Voice Stress Technologies. Invited presentation, The National Academies Workshop on Field Evaluation of Behavioral and Cognitive Sciences-Based Methods and Tools for Intelligence and Counter-Intelligence, Washington, DC, Sep. 22, 2009.
- Rubin, P. (2008). Talking Heads: Embodied Cognition and Ethics. Invited presentation, Yale University Interdisciplinary Center for Bioethics, Technology and Ethics Working Group, Dec. 3, 2008.
- Rubin, P. (2008). Talking Heads: Speech and Embodied Cognition. Invited presentation, University of British Columbia, Oct. 23, 2008.
- Rubin, P. (2008). Talking Heads: Speech and Embodied Cognition. Invited presentation, The National Academies Committee on Human-Systems Integration, Washington, DC, Sep. 9, 2008.
- Rubin, P. (2008). Talking Heads: Speech and Embodied Cognition. Invited presentation, A Natural-Physical Perspective on Perception-Action-Cognition conference, University of Connecticut, Storrs, June 19, 2008.
- Rubin, P. (2008). Moving Forward with IRBs: Best Practices. Chair and Moderator, Association for Psychological Science Symposium, Chicago, May 23, 2008.
- Rubin, P. (2008). Organizer, Moderator and Speaker, AAAS Symposium: Advances in Language and Speech Science and Technology. AAAS Annual Meeting, Boston, MA, Feb. 15, 2008.
- Rubin, P. (2007). The Great Debate — The Tension Between IRB Review and Academic Freedom / the First Amendment (with Jerry Menikoff and Robert Levine). Invited presentation at PRIM&R (Public Responsibility in Medicine and Research) 2007 Annual HRPP Conference (Human Research Protection Programs in an Evolving Research Landscape), Boston, Dec. 3, 2007.
- Rubin, P. (2007). Invited participant, American Psychological Association Grand Challenges Summit, Baltimore, MD, Oct. 28-30, 2007.

- Rubin, P. (2007). Co-organizer, with Leon Fuerth, of the Forward Engagement “Evolutionary Secession” session, sponsored by the Rockefeller Brothers Fund and The George Washington University, Washington, DC, April 2007.
- Barbosa, Adriano V., Yehia, Hani C., Rubin, Philip and Vatikiotis-Bateson, Eric. (2006). Relating the Audible and Visible Components of Speech. 7th International Seminar on Speech Production, Utabuba – SP- Brazil, Dec. 13-15, 2006.
- Rubin, P. (2006). Human Subjects and Public Policy. Invited talk, American Psychological Association Science Leadership Conference, 2006, Washington, D.C., Dec. 1-2, 2006.
- Rubin, P. (2006). Turning Fears into Public Policy: Grey Goo and Government. Invited talk, SEAC (Society for Ethics Across the Curriculum) 8th Annual International Conference, 2006, Ethics Institute, Dartmouth College, Hanover, NH, Nov. 16-18, 2006.
- Thomson, Judith Jarvis, Elgin, Catherine, Hyman, David A., Rubin, Philip, E., and Knight, Jonathan. (2006). AAUP Report: Research on Human Subjects: Academic Freedom and the Institutional Review Board. *Academe*, Volume 92, Number 5, Sep.-Oct. 2006.
- Rubin, P. (2006). Panel of Experts and Invited Participant, Creative Ethical Problem Solving in Human Research, Oakland, CA, July 28, 2006. Sponsored by National Institutes of Health, National Science Foundation and California State University, East Bay.
- Rubin, P. (2006). Talking Heads: Computational Models of Speech Production. University of Western Sydney, Sydney, Australia, Apr. 18, 2006.
- Rubin, P. (2006). Invited participant, Forward Engagement “Social Tsunamis” conference, The George Washington University, Washington, DC, April 7, 2006.
- Rubin, P. (2006). Cognitive Science and Public Policy: observations of a former NSF administrator. Yale University Dept. of Psychology Seminar on Cognitive Science and Public Policy, New Haven, CT, Mar. 31, 2006.
- Rubin, P. (2005). Talking Heads: from the history of early talking machines through embodied conversational agents. Yale University: Science, Technology and Utopian Visions Working Group, New Haven, CT, Dec. 14, 2005.
- Rubin, P., Best, C., Ramsay, G., Frost, S. & Repp, B. (2005). Cross-modal perception of vowels, stops, and approximants using reduced-formant stimuli. 149th Meeting of the Acoustical Society of America, Vancouver, Canada, May 20, 2005.
- Ramsay, G., Rubin, P., & Best, C. (2005). Acoustic eigenmodes and formant-cavity affiliations for the time-varying vocal tract. 149th Meeting of the Acoustical Society of America, Vancouver, Canada, May 19, 2005.
- Rubin, P. (2005). Invited participant and commentator, *APA-Fordham Minimal Risk Conference*, sponsored by the American Psychological Association and Fordham University. New York, Apr. 29-30, 2005.
- Rubin, P. (2005). Workshop Session Co-Chair (Cyberinfrastructure-mediated Interaction, with Ruzena Bajcsy) and workshop participant. *NSF SBE-CISE Workshop on Cyberinfrastructure and the Social and Behavioral Sciences*. National Science Foundation workshop, Airlie Center, Warrenton, Virginia, March 15-16. 2005.
- Rubin, P. (2005). Organizer and Chair, AAAS Symposium: Some children are left behind: improving reading by understanding language. AAAS Annual Meeting, Washington, DC, Feb. 18, 2005.

- Rubin, P. (2004). Careers for behavioral/social scientists in management and public policy. *Non-Academic Careers in Behavioral, Psychological, and Cognitive Science*. The Federation of Behavioral, Psychological, & Cognitive Sciences. Washington, D.C., Dec. 3, 2004.
- Rubin, P. (2004). Invited participant and commentator, *Speech Separation and Comprehension in Complex Acoustic Environments*, sponsored by the Air Force Office of Scientific Research and the National Science Foundation. Montreal, Quebec, Nov. 4-7, 2004.
- Rubin, P. (2004). Co-moderator (with I. Pritchard), *Federal Forum* (a town-hall meeting with representatives from various federal agencies). PRIM&R (Public Responsibility in Medicine and Research) 2004 Annual IRB Conference, San Diego, Oct. 30, 2004.
- Rubin, P. (2004). Enhancing communications between sponsors and research institutions (with R. Newbower, M. Francis, & G. Prakash). PRIM&R (Public Responsibility in Medicine and Research) 2004 Annual IRB Conference, San Diego, Oct. 29, 2004.
- Rubin, P. (2004). Cyberinfrastructure and the social sciences. *Workshop on Cyberinfrastructure and the Social and Behavioral Sciences*. Informal National Science Foundation workshop, Arlington, Virginia, Sep. 27, 2004.
- Rubin, P. (2004). Social and behavioral research with human subjects: opportunities for SACHRP and OHRP. Secretary's Advisory Committee on Human Research Protection, Washington, D.C., July 2004.
- Rubin, P. (2003). Participant in, *The Firing Line* (a panel representing the federal perspective on human subjects protections in all fields of research). PRIM&R (Public Responsibility in Medicine and Research) 2003 Annual IRB Conference, Dec. 5-7, 2003.
- Rubin, P. (2003). The federal perspective on human subjects protections in social and behavioral research. PRIM&R (Public Responsibility in Medicine and Research) 2003 Annual IRB Conference, Dec. 5-7, 2003. (With Ellen Campbell, Dept. of Education; Felice Levine, AERA; Stuart Plattner, NSF, and George Pospisil, OHRP.)
- Rubin, P. (2003). Moderator, *The Federal Forum* (a town-hall meeting with representatives from various federal agencies). PRIM&R (Public Responsibility in Medicine and Research) 2003 Annual IRB Conference, Dec. 5-7, 2003.
- Rubin, P. (2003). Beneficence: What good has come / can come from social science research. PRIM&R (Public Responsibility in Medicine and Research) 2003 Annual IRB Conference, Dec. 5-7, 2003. (With Moira Keane and Michael Oakes.)
- Rubin, P. (2003). Regulatory flexibility: non-biomedical research. Respect for All Involved: A National Research Integrity & Human Research Protection Workshop. Columbia University, Sep. 8-9, 2003. (With Chris Pascal, J.D., Office of Research Integrity, and Dr. Jeffrey Cohen, Associate Dean, Weill Medical College of Cornell University.)
- Rubin, P. (2003). Non-biomedical research: protecting research participants and supporting the research community. A view from behind the scenes. Respect for All Involved: A National Research Integrity & Human Research Protection Workshop. Columbia University, Sep. 8-9, 2003.
- Rubin, P. (2003). Emerging funding opportunities in the social, behavioral and economic sciences. Grants Resource Center, American Association of State Colleges and Universities (AASCU), Mar. 26, 2003, Alexandria, VA.

- Rubin, P. (2002). Federal funding opportunities and obstacles. The Federation of Behavioral, Psychological, & Cognitive Sciences Annual Meeting, Nov. 16, 2002, Washington, D.C. (With Dr. Raynard Kington, National Institutes of Health; Dr. Michael Stefanek, The National Cancer Institute; and Dr. Paul Schnur, National Institute on Drug Abuse).
- Rubin, P. (2002). Invited Participant, A Conference on Undergraduate Research and Scholarship and the Mission of the Research University, The Inn and Conference Center, College Park, MD, Nov. 14-15, 2002. Sponsored by The Reinvention Center at Stony Brook.
- Rubin, P. (2002). Data sharing and the social and behavioral sciences at the National Science Foundation. Presented at the 18th annual meeting of the International Council for Sciences' Committee on Data for Science and Technology – CODATA 2002, Montreal, Canada, Sep. 30, 2002-Oct. 3, 2002.
- Rubin, P. (2002). Homeland security and the social, behavioral and economic sciences. ESCOP Social Science Committee meeting, Washington, D.C., Sep. 9-10, 2002.
- Rubin, P. (2002). Human subjects protection: creating a climate of common sense. Forum on Research Management (FORM), The Federation of Behavioral, Psychological, and Cognitive Sciences, Washington, D.C., Apr. 18, 2002.
- Rubin, P. (2002). Cognition, social interaction, communication, and convergent technologies. The Technology of Humanity: Can Technology Contribute to the Quality of Life? Illinois Institute of Technology / Chicago-Kent College of Law, Chicago, Illinois, Apr. 5, 2002.
- Rubin, P. (2002). What are the current and future data needs in the social and behavioral sciences? National Research Council Roundtable on Social and Behavioral Sciences and Terrorism. National Academies, Washington, D.C., Mar. 18, 2002.
- Rubin, P. (2002). Overview of social and behavioral science research (with Howard Silver and Jared Jobe). AASCU (American Association of State Colleges and Universities), Reconnecting Networks: Grants Resource Center 2002 Spring Meeting, Washington, D.C., Mar. 18, 2002.
- Rubin, P. (2002). AAHRPP and the social and behavioral sciences. National Press Club, Washington, D. C., Feb. 26, 2002.
- Rubin, P., & Pugh, K. (2002). Speaking, signing, and reading: brain systems that support language use. AAAS Annual Meeting, Boston, MA, Feb. 18, 2002, S11.
- Rubin, P. (2002). Human subjects protection: creating a climate of common sense. DC Sociological Society, George Washington University, Washington, D.C., Feb. 12, 2002.
- Rubin, P. (2002). The National Science Foundation's behavioral research agenda. National Research Council's Board on Behavioral, Cognitive and Sensory Sciences. NRC, Washington, D.C., Jan. 24, 2002.
- Rubin, P. (2002). Closing remarks and final discussion. GABFEST: Processing Communicative Events, ATR Research Laboratories, Kyoto, Japan, Jan. 15, 2002.
- Rubin, P. (2002). Cognition, social interaction, communication and convergent technologies. In M. C. Roco & W. S. Bainbridge (Eds.), *Converging technologies for improving human performance: Nanotechnology, biotechnology, information technology and cognitive science*. NSF/DOC-sponsored report, June 2002, Arlington, Virginia. Report on a workshop held Dec. 3-4, 2001, Arlington, Virginia.

- Rubin, P., Hirschbein, M., Masciangioli, T., Miller, T., Murray, C., Norwood, R. and Sargent, J. (2002). The Communicator: Enhancement of group communication, efficiency and creativity. In M. C. Roco & W. S. Bainbridge (Eds.), *Converging technologies for improving human performance: Nanotechnology, biotechnology, information technology and cognitive science*. NSF/DOC-sponsored report, June 2002, Arlington, Virginia. Report on a workshop held Dec. 3-4, 2001, Arlington, Virginia.
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