
References

“Preface: A Message to the Scientific Community”

1. International Institute for Environment and Development and World Resources Institute, *World Resources 1986* (New York: Basic Books, 1986).
2. I. T. Frolov, ed., *The Earth and Mankind: Global Problems*, in Russian (Moscow: MYSL, 1985).
3. Richard Rhodes, *The Making of the Atomic Bomb* (New York: Simon and Schuster, 1986).

Editors, “The Challenge to Change”

1. Theodore B. Taylor, “Proliferation of Nuclear Weapons.” In this Challenge to Change section, references refer to articles appearing in this book.
2. Paul Bracken, “Instabilities in the Control of Nuclear Forces.”
3. Boris V. Raushenbakh, “Computer War.”
4. Linn I. Sennott, “Overlapping False Alarms: Reason for Concern?”
5. Sennott.
6. Alan Borning, “Computer System Reliability and Nuclear War.”
7. Marianne Frankenhaeuser, “To Err Is Human: Nuclear War by Mistake?”
8. Einar Kringlen, “The Myth of Rationality in Situations of Crisis.”
9. Frankenhaeuser, and Natalia P. Bekhtereva, “Dangers and Opportunities for Change from a Physiologist’s Point of View.”
10. Kringlen.
11. Martin E. Hellman, “Nuclear War: Inevitable or Preventable?”
12. Anatoly A. Gromyko, “Security for All in the Nuclear Age.”

13. John M. Richardson, Jr., "Messages from Global Modeling about an Interdependent World."
14. Beyond War, Richard T. Roney, ed., "Beyond War."
15. Soviet cosmonaut Yuri Gagarin. (Also see "Beyond War" article in this book for a complete quote.)
16. Apollo 9 astronaut Russell Schweickart. (Also see "Beyond War" article in this book for a complete quote.)
17. Richardson, and Beyond War.
18. Ales Adamovich, "Problems with the New Way of Thinking," and Gromyko.
19. Andrei V. Kortunov, "Realism and Morality in Politics."
20. Adamovich.
21. Jerome D. Frank and Andrei Y. Melville, "The Image of the Enemy and the Process of Change."
22. Frank and Melville.
23. Beyond War.
24. Kortunov.
25. Kenneth E. Boulding, "Moving from Unstable to Stable Peace."
26. Vladimir S. Ageev, "Similarity or Diversity?"
27. Fyodor M. Burlatsky, "New Thinking about Socialism," and Gromyko.
28. Robert Axelrod, "The Evolution of Cooperation."
29. Beyond War.
30. Richardson.
31. Beyond War.
32. Alexander I. Nikitin, "The Concept of Universal Security: A Revolution in Thinking and Policy in the Nuclear Age."
33. Nikitin.
34. Alexander I. Belchuk, "Restructuring of Soviet Society."
35. Kortunov.
36. Gromyko.
37. Stanislav K. Roshchin and Tatiana S. Kabachenko, "Young People and Nuclear War."
38. Everett M. Rogers, "Diffusion of the Idea of Beyond War."
39. Burlatsky.
40. Rogers.
41. Burlatsky and Belchuk.
42. Burlatsky and Belchuk.
43. Burlatsky and Belchuk.
44. Rogers.
45. Sidney Drell, "The Impact of a US Public Constituency on Arms Control."

46. Drell, Rogers, Burlatsky, Belchuk, Adamovich.
47. Bekhtereva.
48. Bekhtereva.
49. Rogers.
50. Bekhtereva.
51. Bekhtereva.
52. Boulding.
53. Beyond War.
54. Kortunov.
55. Bekhtereva.
56. Rogers.
57. Frank and Melville.
58. Roshchin and Kabachenko.
59. Adamovich and Gromyko.
60. Ageev and Burlatsky.
61. Andrei Y. Melville, "Nuclear Revolution and the New Way of Thinking."
62. Gromyko and Nikitin.
63. Steven Kull, "Nuclear Reality: Resistance and Adaptation."
64. Zamoshkin, "Nuclear Disarmament: Ideal and Reality."
65. Adamovich and Beyond War.
66. Drell.
67. Belchuk.

Inevitability: Collision Course with Disaster

Alan Borning, "Computer System Reliability and Nuclear War"

1. Barry Goldwater and Gary Hart, *Recent False Alerts from the Nation's Missile Attack Warning System*, Report to the Committee on Armed Services, United States Senate (Washington, D.C.: Government Printing Office, 1980).
2. William M. Arkin, "Nuclear Weapon Command, Control, and Communications," in *World Armaments and Disarmament: SIPRI Yearbook 1984* (London and Philadelphia: Taylor & Francis, 1984), pp. 455-516.
3. Bruce G. Blair, *Strategic Command and Control* (Washington, D.C.: Brookings Institution, 1985).
4. Paul Bracken, *The Command and Control of Nuclear Force* (New Haven: Yale University Press, 1983).

5. W. Richards Adrion, Martha A. Branstad, and John C. Cherniavsky, "Validation, Verification, and Testing of Computer Software," *ACM Computing Surveys*, Vol. 14 No. 2 (June 1982), pp. 159-192.

6. N. G. Leveson, "Software Safety: Why, What, and How," *ACM Computing Surveys*, Vol. 18 No. 2 (June 1986), pp. 125-163.

7. Charles C. Perrow, *Normal Accidents: Living with High Risk Technologies* (New York: Basic Books, 1984).

8. Lloyd J. Dumas, "Human Fallibility and Weapons," *Bulletin of the Atomic Scientists*, Vol. 36 No. 9 (November 1980), pp. 15-20.

9. David L. Parnas, "Software Aspects of Strategic Defense Systems," *American Scientist*, Vol. 73 No. 5 (September-October, 1985), pp. 432-440.

Linn I. Sennott, "Overlapping False Alarms: Reason for Concern?"

1. The Center for Defense Information, "Accidental Nuclear War: A Rising Risk?" *The Defense Monitor*, Vol. 15 No. 7 (1986).

2. Linn I. Sennott, "Distributions Arising in False Alarm Analysis of Defense Surveillance Systems," conference on The Risk of Accidental Nuclear War, Vancouver, May 26-30, 1986. (Conference proceedings to appear 1988.)

3. Michael Wallace, Brian Crissey, and Linn Sennott, "Accidental Nuclear War: A Risk Assessment," *J. Peace Research*, Vol. 23 No. 1 (1986), pp. 9-27.

4. D. McLane, "North American Security Rests on NORAD Mission," *Defense Systems Review*, January 1984.

5. John Steinbruner, "Nuclear Decapitation," *Foreign Policy*, Vol. 45 (Winter 1981-1982), pp. 16-18.

6. Bruce G. Blair and Robert McNamara, "Science and the Citizen," *Scientific American*, Vol. 255 No. 4 (October 1986), pp. 74, 76.

7. Dusko Doder, "Kremlin Defense Official Warns of Policy Shift to Quicken Nuclear Response," *Washington Post*, July 13, 1982, p. A-1a.

Boris V. Raushenbakh, "Computer War"

1. Gene F. Franklin, J. David Powell, and Abbas Emami-Naeini, *Feedback Control of Dynamic Systems* (Reading, Massachusetts: Addison-Wesley, 1986).

Marianne Frankenhaeuser, "To Err Is Human: Nuclear War by Mistake?"

1. David A. Hamburg, "The World Transformed: Critical Issues in Contemporary Human Adaptation," *Mack Lipkin Man and Nature Lectures* (New York: American Museum of Natural History, 1987).

2. Lloyd J. Dumas, "Human Fallibility and Weapons," *Bulletin of the Atomic Scientists*, Vol. 36 No. 9 (November 1980), pp. 15-20.
3. Marianne Frankenhaeuser and Gunn Johansson, "On the Psycho-Physiological Consequences of Understimulation and Overstimulation," in L. Levi, ed., *Society, Stress and Disease, Vol. IV: Working Life* (London and New York: Oxford University Press, 1981) pp. 82-89.
4. Donald E. Broadbent, *Decision and Stress* (London and New York: Academic Press, 1971).
5. Marianne Frankenhaeuser, "To Err Is Human – Psychological and Biological Aspects of Human Functioning," in *Nuclear War by Mistake – Inevitable or Preventable? Report from an International Conference in Stockholm, February 15-16, 1985*.
6. Irving Janis, *Victims of Groupthink* (Boston: Houghton Mifflin, 1972).

Einar Kringlen, "The Myth of Rationality in Situations of Crisis"

1. Irving Janis, *Victims of Groupthink* (Boston: Houghton Mifflin, 1972).
2. I. Longstreth and H. Scoville, Transcript of Robert McNamara Press Briefing, at the Arms Control Association, Washington, D.C., September 14, 1983.
3. "Nuclear Arms Reduction Proposals," Hearings before the Committee on Foreign Relations, US Senate, 97th Congress, Second Session, April-May, 1982 (Washington, D.C.: Government Printing Office, 1982).
4. Marvin R. Burt, Mark M. Biegel, Yukio Carnes, and Edward C. Farley, *World-wide Survey of Nonmedical Drug Use and Alcohol Use among Military Personnel: 1980, Final Report* (Bethesda, Maryland: Burt Assoc., Inc., Contract No. MDA 903-79-C-0667, November 14, 1980).
5. Hearings on Military Construction, Appropriations for 1979, House Committee on Appropriations, Subcommittee on Military Construction, 95th Congress of the US, Second Session (Washington, D.C.: Government Printing Office, 1978).

Stanislav K. Roshchin and Tatiana S. Kabachenko, "Young People and Nuclear War"

1. Milton Schwebel, ed., *Behavioral Science and Human Survival* (Palo Alto, California: Behavioral Science Press, 1965).
2. Sibylle K. Escalona, "Children and the Threat of Nuclear War," in Schwebel.

3. John E. Mack, "But What about the Russians?" *Harvard Magazine*, Vol. 84 No. 4 (March-April, 1982), pp. 21-24, 53-54.
4. John E. Mack, "The Perception of U.S.-Soviet Intentions and Other Psychological Dimensions of the Nuclear Arms Race," *American Journal of Orthopsychiatry*, Vol. 52 No. 4 (1982), pp. 590-599.
5. *Newsweek*, October 11, 1982.

Theodore B. Taylor, "Proliferation of Nuclear Weapons"

1. J. Carson Mark, Theodore Taylor, Eugene Eyster, William Maraman, and Jacob Wechsler, "Can Terrorists Build Nuclear Weapons?" in Paul Leventhal and Yonah Alexander, eds., *Preventing Nuclear Terrorism, Report of the International Task Force on Prevention of Nuclear Terrorism* (Lexington, Massachusetts: Lexington Books, 1987), pp. 55-66.
2. David Albright, "Civilian Inventories of Plutonium and Highly Enriched Uranium," in Leventhal and Alexander, pp. 263-297.
3. John R. Lamarsh, "Dedicated Facilities for the Production of Nuclear Weapons in Small and/or Developing Nations," Appendix VI-A, in *Nuclear Proliferation and Safeguards, Appendix Volume II, Part Two*, Office of Technology Assessment, Congress of the United States (Washington, D.C.: Government Printing Office, June 1977), pp. VI-35-42.
4. Warren Donnelly, et al., Updated "Issue Briefs" on Foreign Nuclear Programs, Environment and Natural Resources Policy Division, Congressional Research Service (Washington, D.C.: US Library of Congress, 1987).
5. *Sunday Times* (London), October 5, 1986, pp. 1-3.
6. Tom Gervasi, *America's War Machine: The Pursuit of Global Dominance* (New York: Grove Press, 1985), pp. 85, 88.
7. *Bulletin of the Atomic Scientists*, Vol. 43 No. 4 (May 1987), p. 57.

Martin E. Hellman, "Nuclear War: Inevitable or Preventable?"

1. "Theory of Probability," *Encyclopaedia Britannica*, 1984 Ed., Vol. 14 (Chicago and London), p. 1105.
2. Richard A. Epstein, *The Theory of Gambling and Statistical Logic* (New York: Academic Press, 1977), p. 54.
3. Patrick Billingsley, *Probability and Measure*, 2nd Ed. (New York: Wiley Interscience, 1986), p. 485.
4. Robert F. Kennedy, *Thirteen Days: A Memoir of the Cuban Missile Crisis* (New York: Signet New American Library, 1969).
5. William L. Ury, *Beyond the Hotline* (Boston: Houghton Mifflin, 1985).

6. Jack Dennis, ed., *The Nuclear Almanac: Confronting the Atom in War and Peace* (Reading, Massachusetts: Addison-Wesley, 1984).
7. James McCartney, "Why Military Balks at Plans for War," *San Jose Mercury News* (San Jose, California), April 13, 1986, pp. 1, 7A.
8. Theodore Taylor, "Proliferation of Nuclear Weapons," article in this volume.

Global Thinking: Vision for the Future

Richard T. Roney, ed., "Beyond War: A New Way of Thinking"

1. Arnold J. Toynbee, *Mankind and Mother Earth* (Oxford: Oxford University Press, 1976).
2. Lester R. Brown, *State of the World 1987. A Worldwatch Report on Progress toward a Sustainable Society* (New York: W. W. Norton, 1987).
3. Bernard Lovell, *Emerging Cosmology* (New York: Columbia University Press, 1981).
4. Richard E. Leakey and Roger Lewin, *Origins: What New Discoveries Reveal about the Emergence of Our Species and Its Possible Future* (New York: E. P. Dutton, 1977).
5. Jacob Bronowski, *The Ascent of Man* (Boston: Little, Brown and Co., 1973).
6. Paul R. Ehrlich, *Extinctions: The Crisis and the Consequences of the Disappearances of Species* (New York: Random House, 1981).
7. *Yuri Gagarin* (Moscow: Novosti Press, 1977), pp. 14 and 17.
8. Russell Schweickart, "No Frames, No Boundaries," in *Island in Space: Prospectus for a New Idea*, United Nations Association (Canada: Agency Press, 1986), p. 10.
9. Abraham H. Maslow, *Toward a Psychology of Being* (New York: Van Nostrand Reinhold, 1968).
10. Jonas Salk, *Anatomy of Reality: Merging of Intuition and Reason* (New York: Columbia University Press, 1983).
11. Charles McC. Mathias, Jr., "Habitual Hatred – Unsound Policy," *Foreign Affairs*, Vol. 61 No. 5 (1983), pp. 1017-1030.
12. Sam Keen, *Faces of the Enemy: Reflections of the Hostile Imagination* (San Francisco: Harper and Row, 1986), pp. 20-85.

John M. Richardson, Jr., "Messages from Global Models about an Interdependent World"

1. Donella H. Meadows, John M. Richardson, Jr., and Gerhart Bruckmann, *Groping in the Dark: The First Decade of Global Modeling* (Chichester: John Wiley & Sons, 1982).
2. Aurelio Peccei, *The Human Quality* (Oxford: Pergamon, 1977).
3. Donella H. Meadows, "Lessons from Global Modeling and Modelers," *Futures*, Vol. 14 No. 2 (1982), pp. 113-114.
4. *The Global 2000 Report to the President* (Washington, D.C.: Government Printing Office, 1979).
5. Charles L. Hamrin, "The Impact of the China 2000 Study," *Global Perspective Quarterly* (Washington, D.C.: Global Studies Center, Winter 1987).
6. Gro H. Brundtland, "Norway's Prime Minister Believes New Approaches to Development Are Possible," *Tribute*, Vol. 1 No. 3 (1987), pp. 386-387.
7. The Hunger Project, *Ending Hunger: An Idea Whose Time Has Come* (New York: Praeger, 1985).
8. Donella H. Meadows, "Whole Earth Models and Systems," *Coevolution Quarterly*, Vol. 34 (Summer 1982), pp. 20-30.
9. Ruth Sivard, *World Military and Social Expenditures* (Washington, D.C.: World Priorities, 1986).

Anatoly A. Gromyko, "Security for All in the Nuclear Age"

1. Leo N. Tolstoy, *The Teachings of Jesus, Complete Works*, Paul I. Biryukov, ed., Vol. 15 (Moscow: Prosrednika, 1912).
2. Günter Kunz, *The Environment: Industry and the Environment – Friends Forever, Discussions*, in German (Munich: Deutscher Taschenbuch Verlag, 1983), p. 161.
3. Kunz, p. 164.
4. Kunz, pp. 26-27.
5. Kunz, pp. 46-47.

Ales Adamovich, "Problems with the New Way of Thinking"

1. *Friendship of Peoples*, No. 10 (1984), p. 174.
2. *Literaturnaya Gazeta*, November 5, 1986.
3. Interview in the journal *Problems of Philosophy*, No. 4, (1986).

Process of Change: Individual Action and Collective Transformation

I. Survival as the Superordinate Goal

Kenneth E. Boulding, "Moving from Unstable to Stable Peace"

1. Adam Smith, *The Wealth of Nations* (New York: Modern Library, 1939), pp. 657-658.
2. Kenneth E. Boulding, *Stable Peace* (Austin: University of Texas Press, 1978).
3. Karl Deutsch, et al., *Political Community and the North Atlantic Area* (Princeton, N.J.: Princeton University Press, 1957), pp. 5-7.

Alexander I. Nikitin, "The Concept of Universal Security: A Revolution of Thinking and Policy in the Nuclear Age"

1. Yevgeni I. Chazov, Leonid A. Ilyin, and Angelina K. Guskova, *Nuclear War: The Medical and Biological Consequences, Soviet Physicians' Viewpoint*, English text edited by Boris Lunkov (Moscow: Novosti Press, 1984).
2. Yevgeni Velikhov, ed., *The Night After: Climatic and Biological Consequences of Nuclear War*, Prepared by the Soviet Scientists' Committee for the Defense of Peace against the Nuclear Threat, translated into English by Anatoli Rosenzweig (Moscow: Mir Publishers, 1985).
3. *Common Security: A Program of Disarmament*, Report of the International Commission on Disarmament and Security Issues, under the chairmanship of Olof Palme (Moscow: Progress Publishers, 1982).
4. *Common Security*, p. 190.
5. *Common Security*, p. 205.
6. Jimmy Carter, *Keeping Faith* (London: Collins, 1982), p. 249.

Andrei Y. Melville, "Nuclear Revolution and the New Way of Thinking"

1. Georgi Shakhnazarov, "The Logic of the Nuclear Era," *XXth Century and Peace*, April 1984.
2. Ralph White, *Fearful Warriors: A Psychological Profile of U.S.-Soviet Relations* (New York: Free Press, 1984).
3. Robert Jervis, *The Illogic of American Nuclear Strategy* (Ithaca and London: Cornell University Press, 1984).
4. Robert Lifton, *The Future of Immortality* (New York: Basic Books, 1987).
5. Jerome Frank, *Sanity and Survival: Psychological Aspects of War and Peace* (New York: Random House, 1982).
6. John Mack, "Resistance to Knowing in the Nuclear Age," *Harvard Educational Review*, August 4, 1984.
7. Hans Morgenthau, "The Fallacy of Thinking Conventionally about Nuclear Weapons," in David Carlton and Carlo Schaerf, eds., *Arms*

Control and Technological Innovation (New York: International School on Disarmament and Research on Conflicts, 1976).

8. Steven Kull, "Nuclear Nonsense," *Foreign Policy*, Vol. 58 (Spring 1985), pp. 28-52.

Robert Axelrod, "The Evolution of Cooperation"

1. Ian Hay, *The First Hundred Thousand* (London: Wm. Blackwood, 1916).

2. John H. Morgan, *Leaves from a Field Note-Book* (London: Macmillan, 1916).

3. Robert Gilpin, *War and Change in World Politics* (Cambridge: Cambridge University Press, 1981).

II. Resistance to Change

Natalia P. Bekhtereva, "Dangers and Opportunities for Change from a Physiologist's Point of View"

1. Natalia P. Bekhtereva and D. K. Kambarova, "SMPF – Key to Understanding Emotions," *Science and Mankind, Annual International Edition*, 1985, pp. 41-49.

2. Natalia P. Bekhtereva and D. K. Kambarova, "Neurophysiology of Emotions, and Some General Brain Mechanisms," in *Individual Differences in Movement*, a collection by Bruce Kirkcaldy, ed. (Lancaster and Boston, The Haage Dordressht: MTP Press, Ltd., 1985), pp. 169-192.

3. Natalia P. Bekhtereva, *The Healthy and Unhealthy Human Brain* (Leningrad: Press House Nauka, 1980).

4. Natalia P. Bekhtereva, *The Neurophysiological Aspect of Human Mental Activity*, 2nd Ed. (New York: Oxford University Press, 1978).

5. Natalia P. Bekhtereva, Iuri L. Golitzin, Iuri D. Kropotov, and Medvedev, *Neurophysiological Mechanisms of Thinking* (Leningrad: Press House Nauka, 1985).

Jerome D. Frank and Andrei Y. Melville, "The Image of the Enemy and the Process of Change"

1. Sam Keen, *Faces of the Enemy: Reflections of the Hostile Imagination* (San Francisco: Harper and Row, 1986).

2. *Gallup Poll: Public Opinion, 1959-1971, Vol. III* (New York: Random House, 1972), p. 2015.

3. Jamie Kalven, "A Talk with Louis Harris," *Bulletin of the Atomic Scientists*, Vol. 38 No. 7 (September 1982), pp. 3-5.
4. I. Ahmad and J. Hasmi, *World Peace through Improved Perception and Understanding*. Proceedings of the Thirty-Second Pugwash Conference on Science and World Affairs. Warsaw, Poland, August 26-31, 1982 (Basingstoke, England: Taylor & Francis, 1982).
5. Herbert C. Kelman, ed., *International Behavior. A Socio-psychological Analysis* (New York: Holt, Rinehart & Winston, 1965).
6. Muzafer Sherif and Carolyn W. Sherif, *In Common Predicament: Social Psychology of Intergroup Conflict and Cooperation* (Boston: Houghton Mifflin, 1966).
7. Deborah Shapley, "Pax Antarctica," *Bulletin of the Atomic Scientists*, Vol. 40 No. 6 (June-July 1984), pp. 30-33.

Steven Kull, "Nuclear Reality: Resistance and Adaptation"

1. Hans Morgenthau, "The Fallacy of Thinking Conventionally about Nuclear Weapons," in David Carlton and Carlo Schaerf, eds., *Arms Control and Technological Innovation* (New York: Wiley, 1976) pp. 256-264.
2. Robert Jervis, *The Illogic of American Nuclear Strategy* (Ithaca, New York: Cornell University Press, 1984).
3. "Prepared Text of Reagan's Speech on Central America," *New York Times*, May 10, 1984.
4. Casper Weinberger, *DOD Annual Report FY 1984* (Washington, D.C.: Government Printing Office, 1983) p. 19.
5. Quoted in Strobe Talbott, *Deadly Gambits* (New York: Alfred A. Knopf, 1984) p. 28.
6. Quoted in John Lewis Gaddis, *Strategies of Containment* (Oxford: Oxford University Press, 1982) p. 321.
7. Nikolai V. Ogarkov, *Always in Readiness to Defend the Homeland* (Moscow: Voenizdat, 1982), translated in Soviet Press Selected Translations, November-December, 1982 (US Air Force Publications), p. 323.
8. *Department of State Bulletin*, Vol. 86 No. 2106 (January 1986), p. 8.
9. Alexander L. George, "Crisis Management: International Political and Military Considerations," *Survival*, Vol. 26 No. 5 (1984), pp. 223-234.

III. Bringing New Thinking to Life: Building Public Support

Everett M. Rogers, “Diffusion of the Idea of Beyond War”

1. Everett M. Rogers, *Diffusion of Innovations* (New York: Free Press, 1983).