

NOTES ON CONTRIBUTORS

MARTHA BALDWIN is currently post-doctoral fellow and teaching assistant in the Department of the History of Science, Harvard University. Her published articles on early modern medicine have appeared in *Isis*, *Bulletin for the History of Medicine*, and *Ambix*.

I. BERNARD COHEN is the Victor S. Thomas Professor (emeritus) of the History of Science, Harvard University, and the author of numerous books, articles, and editions of works on the Scientific Revolution. His most recent book is *Science and the Founding Fathers*, a study of the role of science in the political thought of Jefferson, Franklin, Adams, and Madison.

ALLEN G. DEBUS is Morris Fishbein Professor Emeritus of the History of Science and Medicine at the University of Chicago. He has worked extensively on chemical aspects of the Scientific Revolution and has recently published *The French Paracelsians*. He is currently working on a major project entitled, "Chemistry and Medical Debate: 1650–1750." In 1994 he was the recipient of the Sarton Medal of the History of Science Society.

TERENCE D. MURPHY teaches European history at The American University of Paris. His research focuses on the French medical profession under the Old Regime. In a series of studies on the social foundations of medical knowledge, he has investigated the transformation of traditional medical culture within the context of the development and decline of the absolute monarchy.

KAREN HUNGER PARSHALL is associate professor of history and of mathematics at the University of Virginia, Charlottesville. She has completed a book with David E. Rowe, entitled *The Emergence of the American Mathematical Research Community, 1876–1900: J. J. Sylvester, Felix Klein, and E. H. Moore* (1994), and is preparing a volume of selected correspondence with historical and mathematical commentary of the British mathematician, James Joseph Sylvester.

ROBERT J. RICHARDS is professor of history, philosophy, biology, and of the conceptual foundations of science at the University of Chicago. He has recently published *The Meaning of Evolution: The Morphological Construction and Ideological Reconstruction of Darwin's Theory*.

PAUL THEERMAN is associate archivist, Smithsonian Institution Archives. He studies the nineteenth-century popularization of science, especially in Britain, and has recently co-edited, with Adele Seeff, *Action and Reaction*, a series of articles assessing the ideas and influence of Isaac Newton.

MICHAEL T. WALTON received his Ph.D. in history from the University of Chicago. He has published and presented papers on medicine in fifteenth-century London, the influence of the rediscovery of Hebrew on sixteenth-century science, chemistry in the seventeenth century, and Christian-Jewish relations in the sixteenth century. He is presently an independent scholar and president of Walton Marine in Salt Lake City, Utah.

After doing graduate work in the history of science, PHYLLIS J. WALTON received a law degree from the University of Utah. She has, with her husband, worked in the areas of Christian-Jewish relations in the sixteenth century, legal history in the fifteenth and sixteenth centuries, and the influence of Hebrew study on the development of science. She is active in the practice of law and in business.

KATHLEEN WELLMAN is associate professor in the department of history at Southern Methodist University. Her book, *La Mettrie: Medicine, Philosophy, and Enlightenment*, was published by Duke University Press in 1992.

INDEX

- Abbott Laboratories, 241–242
Académie des Sciences, 172, 173
Acarie, Madame, 147
Adams, Robert McCormick, 249
Affaire des placards, 113, 122–123, 134
Agassiz, Louis, 228
Agnosticism, 65–66
Agrippa, Heinrich Cornelius, 46, 47, 51, 115
Alexejeff, W., 102
American Journal of Mathematics, 99–100
Analogy, in scientific discourse, 9–10, 13, 15–17, 97–99
Ancients versus moderns, debate, 203–204, 267, 276
Antipathy, natural, 148, 195
Apulia, 165
Aquinas, Saint Thomas, 128
Arago, François, 223, 229, 230
Archetype, 182
Aristotle and Aristotelianism, 7, 17, 177, 184
Armitage, Angus, 245
Ashmole, Elias, 270
Atomic theory, 88–91
Aubray, Nicole, 126–127, 129
Augustine, Saint, 128, 137, 153
Auzout, Adrien, 174
Babbage, Charles, 64, 229, 230
Baer, Karl Ernst von, 24
Baglivi, Giorgio, 168, 170, 175–176, 183
Baker, Keith M., 255, 260
Basalla, George, 242, 271, 274
Beadle, George, 246
Becker, Howard, 25
Bennett, H. Stanley, 259
Bentham, Jeremy, 23, 75
Bernard, Claude, 24
Bérulle, Pierre, 141–143, 147, 150
Bèze, Théodore de, 125–127, 134
Bitoy, Elizabeth, 263
Bluntschli, Johann Caspar, 11–13, 19
Boccone, Paolo, 170, 172, 176
Bodin, Jean, 129–130, 148
Body politic, 1–28
Boethius, 43
Bonnani, Filippo, 170
Boole, George, 93–94
Bormuth, John R., 257
Bossuet, Jacques-Bénigne, 138
Bostock, R., 270
Boulaese, Jehan, 129
Bourg, Anne Du, 123–125, 141
Boyle, Robert, 174, 180, 240, 268, 272–274
Brande, William Thomas, 223
Brewster, David, 9, 222, 229–230
British Museum (London), 245
Bromberger, Sylvain, 248
Brossier, Martha, 142–143
Brougham, Henry, 212
Bulifon, Antoine, 168, 172–175
Bureau d'Adresse, 171, 193–204
Butlerov, Alexander, 88
Butterfield, Herbert, 243
Bylebyl, Jerome, 259, 260, 263
Cabinet Cyclopædia, 212, 226
Calinger, Ronald, 272
Calvin, John, 113–114, 118, 153
Cambridge University, Churchill College, 249–251, 256, 273
Came, Charles, 218
Campanella, Tommaso, 177–178
Canard, Nicolas-François, 9
Cancellieri, Francesco, 172, 174
Cannon, Susan F., 62
Cannon, Walter B., 13–14
Caputi, Nicolai, 183
Carey, Henry, 15
Carlyle, Thomas, 10–11, 13
Cate, James, 248

- Catherine de Medici (queen of France), 125
- Cayley, Arthur, 83, 91–96
- Charles I (king of England), 1–2
- Charles IX (king of France), 125
- Charleton, Walter, 180–181
- Chemical philosophy, 267, 269–277
- Chemicograph, 97–99
- Chemistry, 87–93, 96–103
- Chilton, George, 227
- Cirillo, Domenico, 172
- Cirillo, Niccolò, 183
- Clagett, Marshall, 237, 242, 243, 266
- Clifford, William Kingdon, 100
- Cockcroft, Lady, 250–251
- Cockcroft, Sir John, 250–251
- Cohen, I. Bernard, 237, 242, 243, 246, 259, 267
- Coleman, William, 242, 261, 274
- Collins, Edward J., 249–250, 252, 256, 259, 260, 272
- Collyer, Robert, 218, 227
- Comte, Auguste, 26, 81
- Conant, James B., 242–243
- Condorcet, Marquis de, 27
- Copernicus, Nicolas, 48
- Cornelio, Tommaso, 172, 176, 183
- Corpuscular theory of matter, 179–181, 184
- Coton, Father, 141
- Couper, Archibald, 88
- Covariant, 94
- Crear Library (Chicago), 248, 262
- Crum Brown, Alexander, 88–90, 92
- Daniels, George, 262
- Darwin and Darwinism, 61–76
- Davy, Humphrey, 225
- De Salazar Frias, Alonso, 146
- Debus, Allen A. G. (son), 242
- Debus, Allen G., 61, 88, 115, 193, 237–280
- Debus, Brunilda López Rodríguez (wife), 241
- Debus, Karl E. (son), 246
- Debus, Richard W. (son), 246
- Dee, John, 44–47, 51, 270
- Delancre, Pierre, 145–146, 149
- Demandois de la Palud, Madelaine, 143–145
- Demonic possession, 126–127, 142–143
- Desaguliers, John, 229
- Descartes, René, 114, 115, 150–153
- Drayton, Edward, 218
- Du Vair, Guillaume, 139–142, 145
- Dulaurens, André, 135–138, 140, 142–143
- Dürer, Albrecht, 47
- Durkheim, Émile, 19
- Duveen Collection (alchemical and early chemical texts), 275
- Edict of Ecouen, 123
- Empiricism, mathematical, 85–86
- Engels, Friedrich, 23
- Eucharist, 117, 118–123, 128, 130–131, 136
- Faber, Joseph, 218, 227
- Faraday, Michael, 223, 229
- Ferdinando, Epiphanio, 163–164, 166–167, 169–172, 177
- Ficino, Marsilio, 115
- Field Museum of Natural History (Chicago), 238
- Firens, Pierre, 135–136
- Fishbein, Anna, 259–260, 262
- Fishbein, Morris, 258–262
- Fishbein Center for the Study of the History of Science and Medicine (University of Chicago), 258–266
- Fishbein Collection (history of medicine), 248, 258, 261
- Fisher, Irving, 22
- Flachs, Andreas, 171

- Fludd, Robert, 49–50, 148, 270–271, 274, 276
 Folger Shakespeare Library (Washington, D.C.), 276
 Folk medicine, 184
 Fontaine, Jacques, 144
 Forster, A. Haire, 241
 Foucault, Michel, 26–27
 François I (king of France), 119–121
 François II (king of France), 125
 Frankfort, Henri, 238
 Frankland, Edward, 88–90, 92, 101
 Franklin, Benjamin, 225
 Franklin, John Hope, 252, 254–256
 Freud, Sigmund, 17
 Frommann, Johann Christiaan, 182
 Frye, Northrop, 121–122
 Fulton, John F., 268
 Galen and Galenism, 137, 177, 179, 184
 Galileo, 147–148, 151
 Galliberto, Giovanni Baptista, 167
 Galvani, Luigi, 225
 Gassendi, Pierre, 180
 Gaufridy, Louis, 143–145
Gematria, 45
 Geoffroy, Étienne, 172, 173, 175
 Georgius, Franciscus, 43
 Ghiselin, Michael, 72
 Gilbert, William, 271
 Gilman, Daniel Coit, 101
 Gnosticism, 122
 Gordan, Paul, 99, 102
 Gottschalk, Louis, 271
 Gould, Stephen Jay, 261
 Gouveia, A. J. A., 271–272
 Gouye, Pierre, 175
 Graph theory, 91–93
 Greeley, Horace, 214–218
 Grmek, Mirko D., 259
 Grube, Hermann, 171
 Grünbaum, Adolf, 254
 Gucker, Frank T., 240–241
 Guyot, Arnold, 228
 Hacker, Barton, 249
 Haffenreffer, Samuel, 180
 Hahn, Roger, 261
 Halle, John, 2
 Halley's Comet, 221–222
 Han, Jean de, 124–125
 Harmony, in nature, 48–50
 Harrington, John, 4–7
 Harvard University, 242–243
 Harvey, William, 1–7, 271
 Helmholtz, Hermann von, 86
 Helmont, Jean Baptiste van, 181, 182, 271, 273, 274
 Hempel, Carl G., 254
 Henderson, Lawrence J., 27
 Henri II (king of France), 124, 125
 Henri IV (king of France), 117, 127, 132–135
 Henry, Joseph, 82, 214–217, 221, 228–229
 Henslow, John Stevens, 212
 Heresy, 118–119, 121
 Herschel, John F. W., 212, 229, 230
 Historiography, ix–xiii, 114–115, 243–245, 267–268, 271–272, 276–278
 Hobbes, Thomas, 3–4
 Holbrook, Josiah, 218–219
 Homberg, Wilhelm, 170, 172
 Homology, in scientific discourse, 9–12, 14, 15
 Hooke, Robert, 170
 Hoskin, Michael, 249, 261, 270
 Huxley, Thomas Henry, 69–70, 84, 230
 Identity, in scientific discourse, 9, 19–20
 Ihde, Aaron J., 242
 Indiana University, 240–241
 Instinct, social, 73–74
 Institute for Advanced Study (Princeton), 273
 Invariant theory, 83, 85–86, 93–103
 Isomerism, 90–93
 Jacobson, Leon O., 260

- James I (king of England), 18–19
 James, William, 62
 Jevons, William Stanley, 15, 20–21
 Jobe, Thomas, 263
 Johns Hopkins University, 83
 Johnson, D. Gale, 256
 Johnson, Walter, 246–247
 Johnstone, J. W. F., 228
 Jordan, Wilbur K., 242, 244, 269
 Kabbalah, geometrical, 43–51
 Kamin, Leon, 62
 Kant, Immanuel, 81
 Kekulé, August, 88
 Kepler, Johannes, 47–51, 114, 148
 King, Lester S., 250, 252, 260
 Kircher, Athanasius, 167–168, 170, 175–176, 178–180
 Klein, Martin J., 254
 Knight, Charles R., 238
 Koreff, David Ferdinand, 172
 Koyré, Alexandre, 243, 277
 Kraemer, Heinrich, 128
 Kruskal, William H., 256–257, 266
 La Place, Pierre Simon de, 127
 Lardner, Dionysius, 211–230
 Léry, Jean de, 130–131
 Lewontin, Richard, 61–62, 65
 L'Hospital, Michel de, 125
 Liebig, Justus von, 229
 Lilienfeld, Paul von, 12, 13, 19–20, 25–26
 Lincoln Laboratories, 242
 Lister, Martin, 170, 172
 Little, Helen, 260, 263
 Lloyd, G. E. R., 250
 Louis IX (king of France), 121
 Louis XIV (king of France), 121
 Lowell Institute (Boston), 216
 Loyseau, Charles, 138
 Lubbock, John, 10
 Luther, Martin, 118
 Lyceum movement, 218–219
 Lyell, Charles, 62, 227–228
 MacLane, Saunders, 254, 260
 Macrocosm-microcosm analogy, 196, 201
 Mädler, Karl, 222
 Magliabechi, Lorenzo, 172
 Malthus, Thomas, 27, 73
 Manget, Jean Jacques, 173
 Manning, Cardinal Edward, 61
 Marcet, Jane, 229
 Marescot, Michel, 142–143
 Marshall, Alfred, 24
 Martin, Benjamin, 229
 Mathematics, 17, 44, 47, 49, 50, 86–87, 103, 202, 273
 Mathematization, 82, 87–93, 273
 McKie, Douglas, 245
 McNeill, William, 246–248, 259, 261, 263–265
 Mead, Richard, 174–175
 Mechanical philosophy, 3, 199–200
 Ménard, Claude, 9, 22
 Mendeleev, Dmitry, 88
Mercuriale, 23
 Mersenne, Marin, 151
 Merton, Robert K., 14
 Metaphor, in scientific discourse, 9, 17–20, 22–23
 Meysonnier, Lazare, 178
 Michaelis, Sebastian, 143–145
 Milne-Edwards, Henri, 24
 Milton, John, 75–76
 Mirowski, Philip, 22
 Monad, hieroglyphic, 44–46
 Monsters, 196–197
 Montaigne, Michel de, 131–132
 Montgomery Ward, 239
 Moore, Paul B., 260–261
 Moral nature, human, 72–75
 Morrison, Karl F., 261
 Motion, perpetual, 196
 Murray, John J., 239–240
 Music, 86, 201–202
 Music cure, 165–169, 176–183

- Nash, Leonard K., 242–243
 Natural philosophy, 221–223
 Natural selection, 66–72
 Natural theology, 61, 64–72
 Naudé, Gabriel, 149–150
 Nebular hypothesis, 224–225
 Needham, Joseph, 250
 Neoplatonism, 43–44, 47, 50
New York Tribune, 212–215, 218
 Newberry Library (Chicago), 262, 274
 Newcomb, Simon, 100
 Newton, Isaac, 15
 Nichol, John Pringle, 228, 229
 Nicolelli, Paolo, 167
 Northcott, Kenneth J., 256–257
 Northwestern University, 239
Notariakon, 45
 Number mysticism, 43–51, 202
 Nynauld, Jean de, 148–149
 O'Malley, C. Donald, 254, 259
 Ohio State University, 245–246
 Oldenburg, Henry, 172, 174, 176
 Owen, Robert Dale, 221
 Pagel, Walter, 115, 244–245, 251, 267, 270, 272
 Paley, William, 69, 72–73
 Palingenesis, 273
 Palter, Robert, 248
 Paracelsus and Paracelsianism, 87, 116, 149–150, 180, 198, 200, 243–244, 267, 269–271, 273–277
 Paré, Ambroise, 127
 Pareto, Vilfredo, 22
 Patin, Guy, 150
 Paul, Saint, 18
 Peale's Museum (Philadelphia), 216
 Philosopher's stone, 196
 Physiocrats, 8–9
 Pico della Mirandola, Giovanni, 43, 46
 Pingree, David, 249, 252, 260
 Plato and Platonism, 43, 51, 179, 180
 Plessis-Morney, Phillipe du, 128
 Plurality of worlds, 221–222, 224
 Popularization of science, 103, 211–230
 Porta, John Baptista della, 115–116
 Positivism, 81, 82, 84, 86–87, 102–103
 Postel, Guillaume, 46, 51
 Providence, 225–226
 Provine, William B., 261
 Pythagoras, 43, 48, 51
 Quesnay, François, 8–9
 Ramus, Peter, 127
 Rattansi, P. M., 245, 249
 Ravin, Arnold W., 261, 263–264
 Ray, John, 174
 Recordings, early sound, 269
 Redi, Francesco, 172–173
 Renaudot, Théophraste, 150, 171, 193–195, 198
 Reuchlin, Johannes, 43, 46
 Richards, Robert J., 263, 264
 Romanes, George, 62
 Rose, Steven, 62
 Rosenthal, Robert, 248, 261
 Rosicrucians, 116, 149–151
 Rousseau, Jean-Jacques, 8
 Rowland, Henry, 96
 Royal Society of London, 172, 174
 Royal touch, 134–142
 Rust, Brian, 269
 Sangenito, Domenico, 168–169, 173–175
 Santorio, Roberto, 167
 Sarton, George, 240, 267
 Savonarola, 116
 Schäffle, Albert E., 13, 19–20
 Schaffner Collection (history of science), 248, 261–262
 Schelling, Friedrich, 81
 Schopf, Thomas, 261
 Schott, Gaspar, 180
 Schumpeter, Joseph, 9
 Scoresby, William, 228
 Senguerd, Wolferd, 171, 181–182
 Sennert, Daniel, 178

- Severino, Marco Aurelio, 180
 Shannon, James A., 259
 Shapere, Dudley, 248, 249, 251–257
 Sherley, Thomas, 274
 Shils, Edward, 261
 Shklar, Judith, 8
 Sibley, Ebenezer, 274
 Signatures, natural, 144
 Silliman, Benjamin, Sr., 214, 218
 Simone, Pietro, 163–164, 166
 Simpson, Alan, 249
 Smeaton, William A., 245
 Smith, Cyril Stanley, 246, 261, 267
 Smithson, James, 221
 Smithsonian Institution (Washington, D.C.), 216
 Somerville, Mary, 229
 Special creation, 63–64
 Specialization, professional, 82–83
 Spencer, Herbert, 13, 19, 230
 Spottiswoode, William, 85–86
 Sprenger, Jakob, 128
 Stark, Werner, 16
 Stauffer, Robert, 242
 Stocking, George W., Jr., 255, 257, 260, 264
 Streeter, Robert, 251, 255, 256
 Swerdlow, Noel M., 255, 260
 Sylvester, James Joseph, 82–87, 93, 95–103
 Sympathy, natural, 148, 177–179, 195
 Tanckius, Joachim, 49
 Tarantism, 163–185
 Taranto, archbishop of, 176–177
 Tarlov, Alvin B., 261
 Taylor, Charles H., 242
 Teleology, 198–199
 Temkin, Owsei, 25
 Tesoro, Giovanni Giacomo, 168–169
 Textbooks, scientific, 226–227
 Toulmin, Stephen, 261
 Transubstantiation, 113, 122, 131
 Trevor-Roper, Hugh, 250, 261
 Tudecius, Simon Aloysius, 172
 Tyndall, John, 10
Tzyruph, 45
 Underwood, E. Ashworth, 245
 University of Chicago
 history of science at, 245–268
 philosophy of science at, 251–257
 Morris Fishbein Center for the Study of the History of Science and Medicine, 258–266
 Oriental Institute, 238, 249
 University College, London, 245
 University of Wisconsin, 242
 Institute for Research in the Humanities, 271–272, 275
 Memorial Library, 262, 275
 Uretz, Robert B., 261
 Valence, 88–90, 97
 Valletta, Ludovico, 169, 175
 Van der Wiel, Cornelis Stalpert, 171
 Vasoli, Cesare, 261
 Veith, Ilza, 237, 247, 270
 Virchow, Rudolf, 24–27
 Vitruvius, Marcus, 47
 Wallace, Alfred Russel, 62, 71
 Walras, Léon, 15, 21–22
 Ward, Seth, 270
 Weapon-salve cure, 203
 Weber, Max, 114
 Webster, John, 270
 Wellcome Historical Medical Library (London), 245
 Westfall, Richard S., 261
 Whewell, William, 222
 White, Andrew Dickson, 61
 Whitehead, Alfred North, 12, 16
 Wier, Johan, 129, 143
 Wilberforce, Samuel, 61
 Wilkie, J. S., 245
 Wilkins, John, 270
 Williams, Bert, 275

Willis, Thomas, 181
Wilson, John, 256, 257
Wilson, John A., 238
Wirth, Louis, 27

Witchcraft, 118, 128-130, 143-144
Worms, René, 13, 19
Yates, Frances A., 115
Youmans, Edward, 230

The University of Western Ontario Series
in Philosophy of Science

1. J. Leach, R. Butts and G. Pearce (eds.): *Science, Decision and Value*. 1973
ISBN 90-277-0239-X; Pb 90-277-0327-2
2. C.A. Hooker (ed.): *Contemporary Research in the Foundations and Philosophy of Quantum Theory*. 1973
ISBN 90-277-0271-3; Pb 90-277-0338-8
3. J. Bub: *The Interpretation of Quantum Mechanics*. 1974
ISBN 90-277-0465-1; Pb 90-277-0466-X
4. D. Hockney, W. Harper and B. Freed (eds.): *Contemporary Research in Philosophical Logic and Linguistic Semantics*. 1975
ISBN 90-277-0511-9; Pb 90-277-0512-7
5. C.A. Hooker (ed.): *The Logico-algebraic Approach to Quantum Mechanics*.
Vol. I: Historical Evolution. 1975 ISBN 90-277-0567-4; Pb 90-277-0613-1
Vol. II: Contemporary Consolidation. 1979
ISBN 90-277-0707-3; Pb 90-277-0709-X
6. W.L. Harper and C.A. Hooker (eds.): *Foundations of Probability Theory, Statistical Inference, and Statistical Theories of Science*.
Vol. I: Foundations and Philosophy of Epistemic Applications of Probability Theory. 1976 ISBN 90-277-0616-6; Pb 90-277-0617-4
Vol. II: Foundations and Philosophy of Statistical Inference. 1976
ISBN 90-277-0618-2; Pb 90-277-0619-0
Vol. III: Foundations and Philosophy of Statistical Theories in the Physical Sciences. 1976 ISBN 90-277-0620-4; Pb 90-277-0621-2
7. C.A. Hooker (ed.): *Physical Theory as Logico-operational Structure*. 1979
ISBN 90-277-0711-1
8. J.M. Nicholas (ed.): *Images, Perception, and Knowledge*. 1977
ISBN 90-277-0782-0
9. R.E. Butts and J. Hintikka (eds.): *Logic, Foundations of Mathematics, and Computability Theory*. Part One: Logic, Foundations of Mathematics, and Computability Theory. 1977
ISBN 90-277-0708-1
10. R.E. Butts and J. Hintikka (eds.): *Logic, Foundations of Mathematics, and Computing Theory*. Part Two: Foundational Problems in the Special Sciences. 1977
ISBN 90-277-0710-3
11. R.E. Butts and J. Hintikka (eds.): *Logic, Foundations of Mathematics, and Computability Theory*. Part Three: Basic Problems in Methodology and Linguistics. 1977
ISBN 90-277-0829-0
12. R.E. Butts and J. Hintikka (eds.): *Logic, Foundations of Mathematics, and Computability Theory*. Part Four: Historical and Philosophical Dimensions of Logic, Methodology and Philosophy of Science. 1977 ISBN 90-277-0831-2
Set (9-12) ISBN 90-277-0706-5
13. C.A. Hooker J.J. Leach and E.F. McClennen (eds.): *Foundations and Applications of Decision Theory*.
Vol. I: Theoretical Foundations. 1978 ISBN 90-277-0842-8
Vol. II: Epistemic and Social Applications. 1978 ISBN 90-277-0844-4
14. R.E. Butts and J.C. Pitt (eds.): *New Perspectives on Galileo*. 1978
ISBN 90-277-0859-2; Pb 90-277-0891-6

The University of Western Ontario Series
in Philosophy of Science

15. W.L. Harper, R. Stalnaker and G. Pearce (eds.): *Ifs. Conditionals, Belief, Decision, Chance, and Time*. 1981 ISBN 90-277-1184-4; Pb 90-277-1220-4
16. J.C. Pitt (ed.): *Philosophy in Economics*. 1981
ISBN 90-277-1210-7; Pb 90-277-1242-5
17. M. Ruse: *Is Science Sexist? And Other Problems in the Biomedical Sciences*. 1981
ISBN 90-277-1249-2; Pb 90-277-1250-6
18. N. Rescher: *Leibniz's Metaphysics of Nature*. A Group of Essays. 1981
ISBN 90-277-1252-2; Pb 277-1253-0
19. L. Laudan: *Science and Hypothesis*. Historical Essays on Scientific Methodology. 1981
ISBN 90-277-1315-4
20. W.R. Shea (ed.): *Nature Mathematized*. Historical and Philosophical Case Studies in Classical Modern Natural Philosophy. 1983 ISBN 90-277-1402-9
21. M. Ruse (ed.): *Nature Animated*. Historical and Philosophical Case Studies in Greek Medicine, 19th-Century and Recent Biology, Psychiatry, and Psychoanalysis. 1983
ISBN 90-277-1403-7
22. W.R. Shea (ed.): *Otto Hahn and the Rise of Nuclear Physics*. 1983
ISBN 90-277-1584-X
23. H.F. Cohen: *Quantifying Music*. The Science of Music at the First Stage of the Scientific Revolution (1580-1650). 1984
ISBN 90-277-1637-4
24. R.E. Butts: *Kant and the Double Government Methodology*. Supersensibility and Method in Kant's Philosophy of Science. 1984
ISBN 90-277-1760-5; Pb 90-277-2384-2
25. J.R. Brown (ed.): *Scientific Rationality*. The Sociological Turn. 1984
ISBN 90-277-1812-1
26. F. Wilson: *Explanation, Causation and Deduction*. 1985 ISBN 90-277-1856-3
27. J.C. Pitt (ed.): *Change and Progress in Modern Science*. 1985
ISBN 90-277-1898-9
28. H.B. Hollinger and M.J. Zenzen: *The Nature of Irreversibility*. A Study of Its Dynamics and Physical Origins. 1985
ISBN 90-277-2080-0
29. K. Okruhlik and J.R. Brown (eds.): *The Natural Philosophy of Leibniz*. 1985
ISBN 90-277-2145-9
30. G. Oddie: *Likeness to Truth*. 1986
ISBN 90-277-2238-2
31. F. Wilson: *Laws and Other Worlds*. A Human Account of Laws and Counterfactuals. 1986
ISBN 277-2232-3
32. J. Earman: *A Primer on Determinism*. 1986
ISBN 90-277-2240-4; Pb 90-277-2241-2
33. R.E. Butts (ed.): *Kant's Philosophy of Physical Science*. *Metaphysische Anfangsgründe der Naturwissenschaft* (1786-1986). 1986
ISBN 90-277-2309-5; Pb 90-277-2310-9
34. I.B. MacNeill and G.J. Umphrey (eds.): *Advances in the Statistical Sciences*. Festschrift in Honor of Professor V.M. Joshi's 70th Birthday (6 volumes).
Vol. I: Applied Probability, Stochastic Processes, and Sampling Theory. 1987
ISBN 90-277-2393-1
35. I.B. MacNeill and G.J. Umphrey (eds.): *Advances in the Statistical Sciences*.
Vol. II: Foundations of Statistical Inference. 1987
ISBN 90-277-2394-X

The University of Western Ontario Series
in Philosophy of Science

36. I.B. MacNeill and G.J. Umphrey (eds.): *Advances in the Statistical Sciences*. Vol. III: Time Series and Econometric Modelling. 1987 ISBN 90-277-2395-8
37. I.B. MacNeill and G.J. Umphrey (eds.): *Advances in the Statistical Sciences*. Vol. IV: Stochastic Hydrology. 1987 ISBN 90-277-2396-6
38. I.B. MacNeill and G.J. Umphrey (eds.): *Advances in the Statistical Sciences*. Vol. V: Biostatistics. 1987 ISBN 90-277-2397-4
39. I.B. MacNeill and G.J. Umphrey (eds.): *Advances in the Statistical Sciences*. Vol. VI: Actuarial Science. 1987 ISBN 90-277-2398-2
Set ISBN (VoIs 34-39) 90-277-2399-0
40. N. Rescher: *Scientific Realism. A Critical Reappraisal*. 1987 ISBN 90-277-2442-3; Pb 90-277-2528-4
41. B. Skyrms and W.L. Harper (eds.): *Causation, Chance, and Credence*. 1988 ISBN 90-277-2633-7
42. W.L. Harper and B. Skyrms (eds.): *Causation in Decision, Belief Change and Statistics*. 1988 ISBN 90-277-2634-5
43. R.S. Woolhouse (ed.): *Metaphysics and Philosophy of Science in the 17th and 18th Centuries*. Essays in Honor of Gerd Buchdahl. 1988 ISBN 90-277-2743-0
44. R.E. Butts and J.R. Brown (eds.): *Constructivism and Science*. Essays in Recent German Philosophy. 1989 ISBN 0-7923-0251-6
45. A.D. Irvine (ed.): *Physicalism in Mathematics*. 1989 ISBN 0-7923-0513-2
46. J. van Cleve and R.E. Frederick (eds.): *The Philosophy of Right and Left*. Incongruent Counterparts and the Nature of Space. 1991 ISBN 0-7923-0844-1
47. F. Wilson: *Empiricism and Darwin's Science*. 1991 ISBN 0-7923-1019-5
48. G.G. Brittan, Jr. (ed.): *Causality, Method and Modality*. Essays in Honor of Jules Vuillemin. 1991 ISBN 0-7923-1045-4
49. W. Spohn, B.C. van Fraassen and B. Skyrms (eds.): *Existence and Explanation*. Essays in Honor of Karel Lambert. 1991 ISBN 0-7923-1252-X
50. J.C. Pitt: *Galileo, Human Knowledge, and the Book of Nature*. Method Replaces Metaphysics. 1992 ISBN 0-7923-1510-3
51. V. Coelho (ed.): *Music and Science in the Age of Galileo*. 1992 ISBN 0-7923-2028-X
52. P. Janich: *Euclid's Heritage: Is Space Three-Dimensional?* 1992 ISBN 0-7923-2025-5
53. M. Carrier: *The Completeness of Scientific Theories*. On the Derivation of Empirical Indicators within a Theoretical Framework: The Case of Physical Geometry. 1994 ISBN 0-7923-2475-7
54. P. Parrini (ed.): *Kant and Contemporary Epistemology*. 1994 ISBN 0-7923-2681-4
55. J. Leplin (ed.): *The Creation of Ideas in Physics*. Studies for a Methodology of Theory Construction. 1995 ISBN 0-7923-3461-2
56. J.E. McGuire: *Tradition and Innovation*. Newton's Metaphysics of Nature. 1995 ISBN 0-7923-3617-8

The University of Western Ontario Series
in Philosophy of Science

57. R. Clifton (ed.): *Perspectives on Quantum Reality. Non-Relativistic, Relativistic, and Field-Theoretic*. 1996 ISBN 0-7923-3812-X
58. P.H. Theerman and K. Hunger Parshall (eds.): *Experiencing Nature. Proceedings of a Conference in Honor of Allen G. Debus*. 1997 ISBN 0-7923-4477-4