Widely acclaimed as the most authoritative and accessible one-volume dictionary of philosophy available in English (and now with translations into Chinese, Italian, Korean, Russian, and Spanish forthcoming), this work is now in a second edition offering an even richer, more comprehensive, and more up-to-date survey of ideas and thinkers, written by an international team of 440 contributors.

Key features of this second edition:

- The most comprehensive entries on major philosophers
- 400 new entries including 50 on preeminent contemporary philosophers
- Extensive coverage of rapidly developing fields such as the philosophy of mind and applied ethics (bioethics and environmental, medical, and professional ethics)
- More entries on non-Western and non-European philosophy than any comparable volume, including African, Arabic, Islamic, Japanese, Jewish, Korean, and Latin American philosophy
- Broad coverage of Continental philosophy

Robert Audi is Professor of Philosophy and David E. Gallo Professor of Business Ethics at the University of Notre Dame.
BOARD OF EDITORIAL ADVISORS

William P. Alston, Syracuse University
D. M. Armstrong, University of Sydney
Arthur W. Burks, University of Michigan
Hector-Neri Castañeda, Indiana University (deceased)
Roderick M. Chisholm, Brown University (deceased)
Patricia Smith Churchland, University of California, San Diego
    Arthur C. Danto, Columbia University
    Fred Dretske, Stanford University
    Dagfinn Føllesdal, University of Oslo
    Daniel Garber, University of Chicago
    Alan Gewirth, University of Chicago
    Russell Hardin, New York University
William L. Harper, University of Western Ontario
    T. H. Irwin, Cornell University
David Kaplan, University of California, Los Angeles
Norman Kretzmann, Cornell University (deceased)
    J. R. Lucas, Merton College, University of Oxford
    Sally McConnell-Ginet, Cornell University
    Michael S. Moore, University of Pennsylvania
    Alexander Nehamas, Princeton University
Martha C. Nussbaum, University of Chicago
Onora O'Neill, University of Cambridge
    John Perry, Stanford University
    Richard Rorty, Stanford University
John R. Searle, University of California, Berkeley
Raimo Tuomela, University of Helsinki
Bas van Fraassen, Princeton University
    Allen W. Wood, Yale University
THE CAMBRIDGE DICTIONARY OF PHILOSOPHY
SECOND EDITION

General Editor
ROBERT AUDI
## CONTENTS

<table>
<thead>
<tr>
<th>Contributors</th>
<th>page ix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preface to the First Edition</td>
<td>xxvii</td>
</tr>
<tr>
<td>Preface to the Second Edition</td>
<td>xxxiii</td>
</tr>
<tr>
<td><strong>Dictionary</strong></td>
<td></td>
</tr>
<tr>
<td>Appendix of Special Symbols and Logical Notation</td>
<td>991</td>
</tr>
<tr>
<td>Index of Selected Names</td>
<td>995</td>
</tr>
</tbody>
</table>
CONTRIBUTORS

Mitchell Aboulafia (M.Ab.), University of Houston, Clear Lake: Mead

Frederick Adams (F.A.), Central Michigan University: algorithm, bit, cybernetics, Dretske, information theory, mathematical function, non-monotonic logic

Marilyn McCord Adams (M.M.A.), Yale University: Anselm, Ockham, Ockham’s razor

Robert M. Adams (R.M.A.), Yale University: agape, possible worlds, theodicy, transcendence

Laird Addis (L.A.), University of Iowa: holism, Mannheim, methodological holism

James W. Allard (J.W.A.), Montana State University: absolute; Alexander; Bosanquet; Bradley; Caird; Ferguson; Glanvil; Green; McCosh; McTaggart; Mansel; Martineau; More, Thomas; Price; Rashdall; Wilson

David Allison (D.Al.), State University of New York, Stony Brook: Saussure, structuralism, Teilhard de Chardin

Claudio de Almeida (C.d.A.), Pontifica Universidade Católica do Rio Grande do Sul: Moore’s paradox

William P. Alston (W.P.A.), Syracuse University: theory of appearing

Karl Ameriks (K.A.), University of Notre Dame: Kant

C. Anthony Anderson (C.A.A.), University of California, Santa Barbara: degree, intensional logic, substitutivity salva veritate, variable

David Leech Anderson (D.L.A.), Illinois State University: Putnam

Roger Ariew (R.Ar.), Virginia Polytechnic Institute and State University: crucial experiment, Duhem, Kuhn

David Armstrong (D.Ar.), University of Texas, Austin: Longinus, Lucretius, Marcus Aurelius

E. J. Ashworth (E.J.A.), University of Waterloo: Bruno, Campanella, Ficino, Fonseca, Gerson, Paracelsus, Pico della Mirandola

Margaret Atherton (M.At.), University of Wisconsin, Milwaukee: Astell; Cavendish; Cudworth, Dararris; Elizabeth of Bohemia; Shepherd; Wollstonecraft

Bruce Aune (B.A.), University of Massachusetts, Amherst: fallibilism, problem of other minds

Edward Wilson Averill (E.W.A.), Texas Tech University: qualities

Kent Bach (K.B.), San Francisco State University: action verb, criterion, metalanguage, speech act theory, type–token distinction

Lynne Rudder Baker (L.R.B.), University of Massachusetts, Amherst: functionalism
<table>
<thead>
<tr>
<th>Name</th>
<th>Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas R. Baldwin (T.R.B.)</td>
<td>University of York: Anscombe, Strawson</td>
</tr>
<tr>
<td>Jon Barwise (J.Ba.)</td>
<td>Indiana University: compactness theorem, infinitary logic</td>
</tr>
<tr>
<td>George Bealer (G.B.)</td>
<td>University of Colorado: property</td>
</tr>
<tr>
<td>William Bechtel (W.B.)</td>
<td>Washington University: cognitive science, connectionism</td>
</tr>
<tr>
<td>Lawrence C. Becker (L.C.B.)</td>
<td>College of William and Mary: meritarian, meritocracy, prisoner's dilemma, situation ethics</td>
</tr>
<tr>
<td>Mark A. Bedau (M.A.B.)</td>
<td>Reed College: artificial life</td>
</tr>
<tr>
<td>Ernst Behler (E.Beh.)</td>
<td>University of Washington: Novalis, Schlegel</td>
</tr>
<tr>
<td>José A. Benardete (J.A.B.)</td>
<td>Syracuse University: infinity</td>
</tr>
<tr>
<td>Ermanno Bencivenga (E.Ben.)</td>
<td>University of California, Irvine: existential generalization, existential instantiation, free logic</td>
</tr>
<tr>
<td>Jan Berg (J.Be.)</td>
<td>Technische Universität München: Bolzano</td>
</tr>
<tr>
<td>Robert L. Bernasconi (R.L.B.)</td>
<td>University of Memphis: Gadamer</td>
</tr>
<tr>
<td>Bernard Berofsky (B.B.)</td>
<td>Columbia University: determinism, necessitarianism</td>
</tr>
<tr>
<td>Rod Bertolet (R.B.)</td>
<td>Purdue University: presupposition, private language argument, theory of descriptions, token-reflexive, trope</td>
</tr>
<tr>
<td>Charles J. Beyer (C.J.B.)</td>
<td>State University of New York, Buffalo: Montesquieu</td>
</tr>
<tr>
<td>Joseph Bien (J.Bi.)</td>
<td>University of Missouri, Columbia: French personalism, Lukács, Riceour, Rousseau, Sorel</td>
</tr>
<tr>
<td>Joseph Bien (J.Bi.)</td>
<td>University of Missouri, Columbia: and Heinz Paetzold (H.P.), University of Hamburg: Praxis school</td>
</tr>
<tr>
<td>Peg Birmingham (P.Bi.)</td>
<td>DePaul University: Irigaray</td>
</tr>
<tr>
<td>Ivan Boh (I.Bo.)</td>
<td>Ohio State University: <em>conditio sine qua non</em>, enthymeme, epicheirema, eristic, imposition, logical notation, obversion, Paul of Venice, Peter of Spain, polysyllogism, pons asinorum, Sheffer stroke, Sherwood, square of opposition, syllogism</td>
</tr>
<tr>
<td>Daniel Bonevac (D.Bo.)</td>
<td>University of Texas, Austin: philosophy of logic</td>
</tr>
<tr>
<td>Laurence BonJour (L.B.)</td>
<td>University of Washington: a priori, Broad, coherence theory of truth</td>
</tr>
<tr>
<td>William J. Bouwsma (W.J.B.)</td>
<td>University of California, Berkeley: Calvin</td>
</tr>
<tr>
<td>Raymond D. Bradley (R.D.B.)</td>
<td>Simon Fraser University: contingent, infinite regress argument, necessity</td>
</tr>
<tr>
<td>Myles Brand (M.B.)</td>
<td>Indiana University: volition, wayward causal chain</td>
</tr>
<tr>
<td>Richard B. Brandt (R.B.B.)</td>
<td>University of Michigan: Bentham, Ross</td>
</tr>
<tr>
<td>Michael E. Bratman (M.E.B.)</td>
<td>Stanford University: intention</td>
</tr>
<tr>
<td>Stephen E. Braude (S.E.B.)</td>
<td>University of Maryland, Baltimore: parapsychology</td>
</tr>
<tr>
<td>Daniel Breazeale (D.Br.)</td>
<td>University of Kentucky: Fichte, Hölderlin, Jacobi, Reinhold, Schelling, Schiller</td>
</tr>
</tbody>
</table>
David O. Brink (D.O.B.), University of California, San Diego: emotivism, ethical constructivism, moral realism

Gordon G. Brittan, Jr. (G.G.B.), Montana State University: Enlightenment

Dan W. Brock (D.W.B.), Brown University: bioethics, utilitarianism

Anthony Brueckner (A.B.), University of California, Santa Barbara: lottery paradox, transcendental argument

Jeffrey Bub (J.Bub), University of Maryland, College Park: quantum logic

Ann E. Bumpus (A.E.B.), Dartmouth College: Thomson

Robert W. Burch (R.W.B.), Texas A & M University: antilogism, biconditional, conjunction, contraposition, contraries, contravalid, converse, disjunctive proposition, iff, inconsistent triad, logical product, negation, partition, sorites, truth table, truth-value

John Burgess (J.Bur.), Princeton University: forcing, independence results, tense logic

Arthur W. Burks (A.W.B.), University of Michigan: Babbage, computer theory, self-reproducing automaton, Turing machine, von Neumann

Panayot Butchvarov (P.Bu.), University of Iowa: conceptualism; first philosophy; Hartmann, N.; metaphysical realism; metaphysics; natural philosophy; substance; substantialism

Robert E. Butts (R.E.B.), University of Western Ontario: Bacon, Francis; Campbell; Eudoxus of Cnidus; functional dependence; Galileo; hypothetico-deductive method; incommensurability; Jevons; lawlike generalization; Priestley; Spencer; testability; theory-laden; Whewell

David Carr (D.C.), Emory University: philosophy of history

Noël Carroll (N.C.), University of Wisconsin, Madison: Carlyle, Danto

Edward S. Casey (E.S.C.), State University of New York, Stony Brook: Jung

Victor Caston (V.C.), Brown University: Alexander of Aphrodisias, energeia, lekton, phantasía

Victor Caston (V.C.), Brown University; and Stephen A. White (S.A.W.), University of Texas, Austin: Andronicus of Rhodes, Antiochus of Ascalon

Albert Casullo (A.C.), University of Nebraska, Lincoln: bundle theory, compresence, identity of indiscernibles

Robert L. Causey (R.L.C.), University of Texas, Austin: magnitude, unity of science

Alan K. L. Chan (A.K.L.C.), National University of Singapore: Ch’ien-fu Lun, Ho Yen, hsien, Hsi K’ang, hsing-ming, Juan Chi, Ko Hung, Neo-Taoism, Po-hu tung

Deen K. Chatterjee (D.K.C.), University of Utah: abhinivesha, ahanta, akāśa, anattavāda, arādhya, avidyā, dharma, samādhi, Vījñānavāda

Roderick M. Chisholm (R.M.C.), Brown University: Ducasse

Brian P. Copenhaver (B.P.C.), University of California, Riverside: hermetism

John Corcoran (J.Cor.), State University of New York, Buffalo: axiomatic method; borderline case; categoricity; Church; conditional; convention T; converse, outer and inner; corresponding conditional; degenerate case; De Morgan;
CONTRIBUTORS

domain; ellipsis; laws of thought; limiting case; logical form; logical subject; material adequacy; mathematical analysis; omega; proof by recursion; recursive function; scheme; scope; Tarski; tautology; universe of discourse

John Cottingham (J.Cot.), University of Reading:Cogito ergo sum, Descartes

Roger Crisp (R.C.), St. Anne's College, University of Oxford:agathon, Anniceris, aporia, Arcesilaus of Pitane, epagoge, Eros, form, logos, poiesis, rigorism

Frederick J. Crosson (F.J.C.), University of Notre Dame: Newman, noetic, preexistence

Antonio S. Cua (A.S.C.), The Catholic University of America:ch'î; chih-hsing ho-i; ch'üan; chün-tzu; Hsün Tzu; jung, ju; kung, szu; iang-chih; Li Chi; li-ch’i; Lu Hsiang-shan; pi; pien; sheng; t’ien-jen ho-i; Wang Yang-ming

Phillip D. Cummins (P.D.C.), University of Iowa: Bayle

Martin Curd (M.C.), Purdue University: Boltzmann, energeticism, Maxwell, Schrödinger

Stephen L. Darwall (S.L.D.), University of Michigan: Butler, Frankena

Wayne A. Davis (W.A.D.), Georgetown University: analytic–synthetic distinction; counterfactuals; inferential knowledge; Lewis, D. K.

Timothy Joseph Day (T.J.D.), University of Alabama, Birmingham: logical indicator, operator theory of adverbs

John Deigh (J.D.), Northwestern University: ethics, motivational internalism

C. F. Delaney (C.F.D.), University of Notre Dame: Critical Realism, Dewey, hypostasis, instrumentalism, New Realism, personalism, wisdom

Daniel C. Dennett (D.C.D.), Tufts University: homunculus, intentionality, Mentalese, mentalism, topic-neutral

Michael R. DePaul (M.R.D.), University of Notre Dame: coherentism, reflective equilibrium

Michael Detlefsen (M.D.), University of Notre Dame: Brouwer, Gödel’s incompleteness theorems, Hilbert, Hilbert’s Program, metamathematics

Daniel Trent Devereux (D.T.D.), University of Virginia: eudaimonism, Socratic intellectualism

Philip E. Devine (P.E.D.), Providence College: euthanasia, principle of double effect

John M. Dillon (J.M.D.), Trinity College, Dublin: Alexandrian School, Ammonius Saccas, commentaries on Aristotle, commentaries on Plato, Damascius, Johannes Philoponus, Middle Platonism, Neoplatonism, Numenius of Apamea, Plotinus

Martin C. Dillon (M.C.D.), Binghamton University: Derrida, différence

Robert DiSalle (R.D.), University of Western Ontario: Helmholtz, relativity, space, space-time

Alan Donagan (A.D.), California Institute of Technology: Collingwood

Fred Dretske (F.D.), Stanford University: perception, sensibilia

Wilhelm Dupré (W.D.), The Catholic University of the Netherlands: Jaspers

Gerald Dworkin (G.D.), University of California, Davis: paternalism, positive and negative freedom

xii
CONTRIBUTORS

John Earman (J.Ea.) and Richard M. Gale (R.M.Ga.), University of Pittsburgh: time

Ellery Eells (E.Ee.), University of Wisconsin, Madison: equiprobable, principle of indifference, probability, regression analysis

Catherine Z. Elgin (C.Z.E.), Harvard University: Goodman

Berent Enç (B.E.), University of Wisconsin, Madison: motivational explanation, paradigm, paradigm case argument, plurality of causes

Ronald P. Endicott (R.P.E.), Arkansas State University: Churchland, Patricia; Churchland, Paul

Edward Erwin (E.Er.), University of Miami: philosophy of psychology

John Etchemendy (J.Et.), Stanford University: logical consequence, paradox, satisfaction, semantic paradoxes, set-theoretic paradoxes

C. Stephen Evans (C.S.E.), Calvin College: Angst, Kierkegaard

Susan L. Feagin (S.L.F.), University of Missouri, Kansas City: aesthetic attitude, aesthetic property, beauty, expression theory of art, institutional theory of art, sublime

Solomon Feferman (S.Fe.), Stanford University: ordinal logic, reflection principles

Richard Feldman (R.Fe.), University of Rochester: epistemic privacy, evidence, knowledge by acquaintance, knowledge de re

Arthur Fine (A.F.), Northwestern University: Einstein, quantum mechanics

Maurice A. Finocchiaro (M.A.F.), University of Nevada, Las Vegas: Gramsci, Mosca

Richard E. Flathman (R.E.F.), Johns Hopkins University: Arendt, Oakeshott, political theory

Gvozden Flego (G.Fl.), University of Zagreb: Blondel, Fourier, Proudhon

Richard Foley (R.Fo.), Rutgers University: analysis, pragmatic contradiction, subjectivism, voluntarism

Graeme Forbes (G.Fo.), Tulane University: modal logic, operator, order, ordering, reality

Malcolm R. Forster (M.R.F.), University of Wisconsin, Madison: curve-fitting problem

Daniel Fouke (D.F.), University of Dayton: Pascal

Patrick Francken (P.F.), Illinois State University: time slice

Samuel Freeman (S.Fr.), University of Pennsylvania: Rawls

Elizabeth Fricker (E.F.), Magdalen College, University of Oxford: testimony

Miranda Fricker (M.F.), Heythrop College, University of London: feminist epistemology

Michael Friedman (M.F.), Indiana University: Hempel

Richard A. Fumerton (R.A.F.), University of Iowa: Ayer, logical positivism, phenomenalism, protocol statement

Alan Gabbey (A.G.), Barnard College: Boyle; Cambridge Platonists; More, Henry

Pieranna Garavaso (P.Gar.), University of Minnesota, Morris: Beccaria, Cajetan, Gentile, Gioberti, Joachim of Floris, Labriola, Marsilius of Padua, Medina, Pomponazzi, Rosmini-Serbati, Telesio, Valla, Vanini, Zabarella
CONTRIBUTORS

Daniel Garber (D.Garb.), University of Chicago: Cordemoy, Geulinx, Goclenius, La Forge, mode, rationalism

Jorge L. A. García (J.L.A.G.), Rutgers University: cardinal virtues, racism, virtue ethics

Don Garrett (D.Garr.), University of North Carolina, Chapel Hill: Spinoza

Philip Gasper (P.Gas.), College of Notre Dame: anti-realism, social constructivism

Berys Gaut (B.Ga.), University of Saint Andrews: consequentialism, depiction, fiction, intentional fallacy

Bernard Gert (B.Ge.), Dartmouth College: applied ethics, Hobbes, morality, rationality, supererogation

Roger F. Gibson (R.F.G.), Washington University: corners, indeterminacy of translation, oblique context, ontological commitment, quantifying in, Quine

Carl Ginet (C.G.), Cornell University: memory, paradox of analysis

Alan H. Goldman (A.H.G.), University of Miami: privileged access

Alvin I. Goldman (A.I.G.), University of Arizona: naturalistic epistemology, reliabilism, social epistemology

Alfonso Gómez-Lobo (A.G.-L.), Georgetown University: hexis, Peripatetic School

Lenn E. Goodman (L.E.G.), Vanderbilt University: al-Rāzī, Averroes, Avicenna, Ibn Daud, Maimonides, Miskawayh, Saadiah

Robert M. Gordon (R.M.G.), University of Missouri, St. Louis: emotion, empathy, James-Lange theory, simulation theory

Jorge J. E. Gracia (J.J.E.G.), State University of New York, Buffalo: Bañez, Gracían y Morales, individuation, John of Saint Thomas, Latin American philosophy, Mariana, Molina, Ortega y Gasset, principium individuationis, Soto, Suárez, Toletus, Unamuno, Vázquez, Vitoria

Daniel W. Graham (D.W.G.), Brigham Young University: Anaxagoras, Anaximander, Anaximenes of Miletus, ancient atomism, apeiron, Democritus, Empedocles, Heraclitus, Leucippus, Milesians, pre-Socratics, Thales

George A. Graham (G.A.G.), University of Alabama, Birmingham: associationism, attribution theory, behavior therapy, cognitive dissonance, conditioning, intervening variable, poverty of the stimulus, redintegration, sensorium, synaesthesia

Richard E. Grandy (R.E.G.), Rice University: Grice, Löwenheim-Skolem theorem, psycholinguistics

I. Grattan-Guinness (I.G.-G.), Middlesex Polytechnic University: calculus, Euclidean geometry, non-Euclidean geometry, Peano postulates

John Greco (J.G.), Fordham University: inference to the best explanation

Philip T. Grier (P.T.G.), Dickinson College: Il'in, Kropotkin, Shpet

Nicholas Griffin (N.G.), McMaster University: emotive conjugation, mnemonic causation

Nicholas Griffin (N.G.), McMaster University; and David B. Martens (D.B.M.), Mount Royal College: Russell

David A. Griffiths (D.A.G.), University of Victoria: Leroux
CONTRIBUTORS

Paul J. Griffiths (P.J.G.), University of Chicago: abhidharma, ālaya-vijñāna, bhavanga, citta-mātra, dravyasat, jñāna, nirodha-samāpatti, samanantara-pratyaya, samatha, sānyatā, vāsanā, viññāpti, vipassanā

Charles L. Griswold, Jr. (C.L.G.), Boston University: Smith

Charles B. Guignon (C.B.G.), University of Vermont: Heidegger

Pete A. Y. Gunter (P.A.Y.G.), University of North Texas: Bergson

Dimitri Gutas (D.Gu.), Yale University: Arabic philosophy, Ibn Khaldūn, Sufism

Gary Gutting (G.G.), University of Notre Dame: Bachelard; Canguilhem; Foucault; Lacan; MacIntyre; Rorty; Taylor; Charles; Voltaire

Paul Guyer (P.Gu.), University of Pennsylvania: Baumgarten, Cavell, Wolff

Kyame Gyekye (K.G.), University of Ghana: African philosophy

Oscar A. Haac (O.A.H.), New York City: Condillac, Constant, Cousin

Michael Hallett (M.H.), McGill University: Cantor, Dedekind, Skolem

Edward C. Halper (E.C.H.), University of Georgia: aitia, autarkia, dianoia, elenchus, noûs, one–many problem, one over many, ousia, teles

Jean Hampton (J. Ham.), University of Arizona: contractarianism, social contract

R. James Hankinson (R.J.H.), University of Texas, Austin: Galen, Hippocrates

K. R. Hanley (K.R.H.), Le Moyne College: Marcel

Russell Hardin (R.Har.), New York University: game theory, Pareto efficiency, voting paradox

Robert M. Harnish (R.M.H.), University of Arizona: Searle

William Harper (W.Har.), University of Western Ontario: natural kind

David Harrah (D.H.), University of California, Riverside: axiom of consistency, cut-elimination theorem, erotic, fuzzy set, tonk

William Hasker (W.Has.), Huntington College: evidentialism, justification by faith, middle knowledge, self-referential incoherence

John Haugeland (J.Hau.), University of Pittsburgh: artificial intelligence

Roger Hausheer (R.Hau.), University of Bradford: Berlin

William Heald (W.He.), University of Iowa: Bergmann

Peter Heath (P.He.), University of Virginia: Austin, J. L.; Carroll

John Heil (J.F.H.), Davidson College: analytic philosophy, awareness, blindsight, Dennett, direct realism, doxastic, Kim, Molyneux question, ordinary language philosophy, power, preanalytic, pro attitude, prototype theory, pseudohallucination, reasons for belief, subdoxastic, Twin-Earth

Francis Heylighen (F.H.), Free University of Brussels; and Cliff Joslyn (C.J.), State University of New York, Binghamton: systems theory

Kathleen Marie Higgins (K.M.H.), University of Texas, Austin: Schopenhauer

Risto Hilpinen (R.Hi.), University of Miami and University of Turku: epistemic logic, epistemic principle, KK-thesis, Peirce, tychism

Harold T. Hodes (H.T.H.), Cornell University: degree of unsolvability, hierarchy, lambda-calculus, logicism

Joshua Hoffman (J.Ho.) and Gary Rosenkrantz (G.Ro.), University of North Carolina, Greensboro: Boscovich, life, mereology, organism, perdurance
CONTRIBUTORS

Alan Holland (A.Ho.), University of Lancaster: environmental philosophy
Robert L. Holmes (R.L.H.), University of Rochester: Gandhi, just war theory, non-violence, pacifism, violence
Brad W. Hooker (B.W.H.), University of Reading: ascriptivism, Brandt, casuistry, descriptiveivism, Hare, justice, prescriptivism, sanction
Terence E. Horgan (T.E.H.), University of Memphis: folk psychology, supervenience
Tamara Horowitz (T.H.), University of Pittsburgh: entropy, stochastic process
Paul Horwich (P.Hor.), Massachusetts Institute of Technology: truth
Paul Hoβfeld (P.Hoβ.), Albertus Magnus Institut: Albertus Magnus
Anne Hudson (A.Hu.), Lady Margaret Hall, University of Oxford: Wyclif
Deal W. Hudson (D.W.H.), Fordham University: Gilson, Maritain, Mercier, Neo-Thomism
Carl A. Huffman (C.A.H.), DePauw University: Archytas, Philolaus, Pythagoras
David L. Hull (D.L.H.), Northwestern University: Darwinism, mechanistic explanation, Mendel, philosophy of biology, teleology
Patricia Huntington (P.Hu.), Loyola University of Chicago: Kristeva
Rosalind Hursthouse (R.Hu.), Open University: Foot
Ronald E. Hustwit (R.E.H.), College of Wooster: Bouwsma
Sarah Hutton (S.H.), London: Cockburn, Conway
Harry A. Ide (H.A.I.), University of Nebraska, Lincoln: Cynics, Cyrenaics, Sophists, thema
Philip J. Ivanhoe (P.J.I.), University of Michigan: Chang Hsüeh-ch’eng; Chang Tsai; Ch’eng Hao, Ch’eng Yi; ch’i; ch’ing; Chou Tun-yi; hsin²; hsiü; Huang-Lao; I-Ching; Kuo Hsiang; li¹; Shao Yung; shen; Tai Chen; Taoism; tsu jan; Wang Fu-chih; Wang Pi; Yen Yuan
Alfred L. Ivry (A.L.I.), New York University: al-Fa-ra-bi, al-Ghażali, cabala, Ibn Gabirol, Jewish philosophy
Dale Jacquette (D.J.), Pennsylvania State University: abstract entity, act-object psychology, Brentano, extensionalism, haecceity, impredicative definition, Meinong, subject–object dichotomy, use–mention distinction
Richard Jeffrey (R.J.), Princeton University: Bayes’s theorem, computability, decision theory, Ramsey
David Alan Johnson (D.A.J.), Yeshiva University: Bayesian rationality, doomsday argument, envelope paradox, grue paradox, qualitative predicate
Edward Johnson (E.J.), University of New Orleans: moral status, personhood
Mark D. Jordan (M.D.J.), University of Notre Dame: Ambrose, Augustine, Bernard of Chartres, Eckhart, Lull, patristic authors, Teresa of Ávila, William of Moerbeke
Hwa Yol Jung (H.Y.J.), Moravian College: Bakhtin, transversality
Robert Hillary Kane (R.H.K.), University of Texas, Austin: Arminius, Bloch, book of life, Lequier, liberum arbitrium, principle of insufficient reason, principle of plenitude, Renouvier, Socinianism

xvi
CONTRIBUTORS

Tomis Kapitan (T.K.), Northern Illinois University: free will problem, guise theory, praction, quasi-indicator, self-determination

Jacquelyn Ann K. Kegley (J.A.K.K.), California State University, Bakersfield: Royce

James A. Keller (J.A.K.), Wofford College: process theology, thought experiment, unity in diversity


Jaegwon Kim (J.K.), Brown University: causal law, causation, explanation

Yersu Kim (Y.K.), Seoul National University: Korean philosophy

Patricia Kitcher (P.K.), Columbia University: Beattie

Peter D. Klein (P.D.K.), Rutgers University: certainty, closure

E. D. Klemke (E.D.K.), Iowa State University: Moore

Virginia Klenk (V.K.), Moorhead State University: axiom of comprehension, comprehension, connected, copula, counterinstance, lexical ordering, normal form, order type omega, sentential connective

George L. Kline (G.L.K.), Bryn Mawr College: Bakunin, Berdyaev, Herzen, Russian nihilism, Russian philosophy, Solovyov

Simo Knuuttila (S.K.), University of Helsinki: future contingents

Joseph J. Kockelmans (J.J.K.), Pennsylvania State University: Continental philosophy, phenomenology

Konstantin Kolenda (K.K.), Rice University: humanism

Isaac Kramnick (I.K.), Cornell University: Burke

Richard Kraut (R.Kr.), Northwestern University: Plato, Socrates

Manfred Kuehn (M.K.), Purdue University: acosmism, Haeckel, Hamann, Hamilton, Herbart, Lambert, Mainon, Reimarus, Schulze, Tetens, Vaihinger

Steven T. Kuhn (S.T.K.), Georgetown University: decidability, deduction theorem, formalism, formalize, formal language, ideal language, is, Kripke semantics, sortal predicate, truth-value semantics

Henry E. Kyburg, Jr. (H.E.K.), University of Rochester: Carnap

John Lachs (J.La.), Vanderbilt University: Santayana

Stephen E. Lahey (S.E.L.), Le Moyne College: insolubilia, obligationes, sophismata, topics


Joo Heung Lee (J.H.L.), Wright College: Bataille

Keith Lehrer (K.L.), University of Arizona: Reid

Dorothy Leland (D.L.e.), Purdue University: embodiment

Noah M. Lemos (N.M.L.), De Pauw University: false pleasure, Perry, value, value theory

Ernest LePore (E.L.), Rutgers University: Davidson, de dicto, holism, principle of verifiability, semantic holism, verificationism

xvii
CONTRIBUTORS

Isaac Levi (I.L.), Columbia University: Bernoulli’s theorem; Nagel, Ernst; reduction sentence; statistical explanation

Andrew Levine (A.L.), University of Wisconsin, Madison: Althusser

Alan E. Lewis (A.E.L.), Austin Presbyterian Theological Seminary: Arianism, Athanasius, Clement of Alexandria, henotheism, homoousios, Montanism, Pelagianism, Tertullian

Daniel E. Little (D.E.L.), Bucknell University: ethnography, ethnology, ethnomethodology, philosophy of the social sciences

Shu-hsien Liu (S.-h.L.), Chinese University of Hong Kong: Ch’en Hsien-chang; ch’eng, Chia Yi; ch’ien, k’un; Ch’ien Mu; Chinese philosophy; Chu Hsi; Fang; Fung Yu-lan; Han Yu; hsing-erh-shang; Hsiung Shih-li; Hsü Fu-kuan; Huang Tsung-hsi; Hu Hung; Hu Shih; K’ang Yu-wei; Liang Ch’i-ch’ao; Liang Sou-ming; Li Ao; li-i-fen-shu; Liu Shao-ch’i; Liu Tsung-chou; Mao Tse-tung; Mou Tsung-san; Neo-Confucianism; shan, o; Sun Yat-sen; t’ai-chi; T’ang Chün-i; T’an Ssu-tung; tao-hsin, jen-hsin; tao-t’ung; t’ai-chi; t’ien li, jen-yü; Tung Chung-shu; Wang Ch’ung; Yang Hsiu-chen; Yang Yuhuai

Shu-hsien Liu (S.-h.L.), Chinese University of Hong Kong, and Alan K. L. Chan (A.K.L.C.), National University of Singapore: Chiao Hung

Brian Loar (B.L.), Rutgers University: meaning

Lawrence B. Lombard (L.B.L.), Wayne State University: event

John Longeway (J.Lo.), University of Wisconsin, Parkside: Adelard of Bath, Albert of Saxony, Boehme, Eriča, Fludd, Gregory I, John of Damascus, Marsilius of Inghen, Nemesius of Emesa, Nicholas of Cusa, Nihil ex nihilo fit, sensus communis, terminist logic, William of Alnwick, William of Auvergne

Michael J. Loux (M.J.L.), University of Notre Dame: essentialism

E. J. Lowe (E.J.L.), University of Durham: Armstrong, Dummett

Steven Luper (S.L.), Trinity University, San Antonio: Nozick

Eugene C. Luschei (E.C.L.), Brown University: Kotarbiński, Leśniewski, Polish logic

William G. Lycan (W.G.L.), University of North Carolina, Chapel Hill: philosophy of language

David Lyons (D.Ly.), Boston University: Hart

William L. McBride (W.L.M.), Purdue University: existentialism, Marx, Marxism

Storrs McCall (S.Mc.), McGill University: Łukasiewicz

Hugh J. McCann (H.J.M.), Texas A & M University: action theory, practical reason, practical reasoning, reasons for action

Robert N. McCauley (R.N.Mc.), Emory University: evolutionary psychology

John J. McDermott (J.J.M.), Texas A & M University: Emerson, James, specious present

Scott MacDonald (S.Ma.), Cornell University: Boethius, Peter Lombard, transcendental

Ralph McInerny (R.M.), University of Notre Dame: neo-Scholasticism, philosophia perennis, potency, synderesis

xviii
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas McKay (T.M.)</td>
<td>Syracuse University</td>
<td>connotation, denotation, indirect discourse, propositional opacity, referentially transparent</td>
</tr>
<tr>
<td>Louis H. Mackey (L.H.M.)</td>
<td>University of Texas, Austin</td>
<td>literary theory, philosophy of literature</td>
</tr>
<tr>
<td>Penelope Mackie (P.Mac.)</td>
<td>University of Birmingham</td>
<td>composable, counterpart theory, organic, organicism, process–product ambiguity</td>
</tr>
<tr>
<td>Michael McKinsey (M.M.)</td>
<td>Wayne State University</td>
<td>anaphora, implicature, indexical</td>
</tr>
<tr>
<td>Brian P. McLaughlin (B.P.M.)</td>
<td>Rutgers University</td>
<td>philosophy of mind</td>
</tr>
<tr>
<td>Ernan McMullin (E.M.)</td>
<td>University of Notre Dame</td>
<td>Kepler, Mach, Poincaré</td>
</tr>
<tr>
<td>Edward H. Madden (E.H.M.)</td>
<td>University of Kentucky</td>
<td>Thoreau, transcendentalism, Wright</td>
</tr>
<tr>
<td>Penelope Maddy (P.Mad.)</td>
<td>University of California, Irvine</td>
<td>class, complementary class, continuum problem, maximal consistent set, Schröder-Bernstein theorem, set theory, transfinite number</td>
</tr>
<tr>
<td>G. B. Madison (G.B.M.)</td>
<td>McMaster University</td>
<td>Merleau-Ponty</td>
</tr>
<tr>
<td>Bernd Magnus (B.M.)</td>
<td>University of California, Riverside</td>
<td>postmodern</td>
</tr>
<tr>
<td>Rudolf A. Makkreel (R.A.M.)</td>
<td>Emory University</td>
<td>Dilthey, Einfühlung</td>
</tr>
<tr>
<td>William E. Mann (W.E.M.)</td>
<td>University of Vermont</td>
<td>accidentalism, Bernard of Clairvaux, concursus dei, dictum de omni et nullo, emanationism, eternal return, infima species, mystical experience, mysticism, Nihil est in intellectu quod non prius fuerit in sensu, paradoxes of omnipotence, Porphyry, soul, survival, tree of Porphyry</td>
</tr>
<tr>
<td>Peter Markie (P.Mar.)</td>
<td>University of Missouri, Columbia</td>
<td>egocentric particular, egocentric predicament</td>
</tr>
<tr>
<td>Jean-Pierre Marquis (J.-P.M.)</td>
<td>University of Montreal</td>
<td>category theory</td>
</tr>
<tr>
<td>A. Marras (A.M.)</td>
<td>University of Western Ontario</td>
<td>behaviorism</td>
</tr>
<tr>
<td>Mike W. Martin (M.W.M.)</td>
<td>Chapman College</td>
<td>bad faith, false consciousness, institution, professional ethics, self-deception, vital lie</td>
</tr>
<tr>
<td>A. P. Martinich (A.P.M.)</td>
<td>University of Texas, Austin</td>
<td>distribution, ens a se, ens rationis, ens realissimum, fundamentum divisionis, notum per se, objectum quo, pantheism, Pantheismusstreit, reism, rerum natura, terminus a quo, theologia naturalis, theosophy</td>
</tr>
<tr>
<td>Jack W. Meiland (J.W.M.)</td>
<td>University of Michigan</td>
<td>category, category mistake, Ryle</td>
</tr>
<tr>
<td>Alfred R. Mele (A.R.M.)</td>
<td>Davidson College</td>
<td>accidie, akrasia, control, extrinsic desire, motivation, rationalization, Socratic paradoxes, theoretical reason, toxin puzzle</td>
</tr>
<tr>
<td>Joseph R. Mendola (J.R.M.)</td>
<td>University of Nebraska, Lincoln</td>
<td>informed consent, moral psychology, rational psychology</td>
</tr>
<tr>
<td>Christopher Menzel (C.M.)</td>
<td>Texas A &amp; M University</td>
<td>alethic modalities, type theory</td>
</tr>
<tr>
<td>Michael J. Meyer (M.J.M.)</td>
<td>Santa Clara University</td>
<td>character, dignity, Percival</td>
</tr>
<tr>
<td>David W. Miller (D.W.M.)</td>
<td>University of Warwick</td>
<td>demarcation, Popper</td>
</tr>
</tbody>
</table>
CONTRIBUTORS

shih chi’un-ch’iu; Mohism; School of Names; Shang Yang; Shen Pu-Hai; Shen Tao; shih, shih; shu; Sung Hsing; Tsou Yen; wu-hsing; Yang Chu; yin, yang

Francis Jeffry Pelletier (F.J.P.) and István Berkeley (I.Be.), University of Alberta: vagueness

Adriaan T. Peperzak (A.T.P.), Loyola University of Chicago: Levinas

Philip Pettit (P.P.), Australian National University: Smart

Edmund L. Pincoffs (E.L.P.), University of Texas, Austin: Austin, John

Robert B. Pippin (R.B.P.), University of Chicago: Hegel

Alvin Plantinga (A.P.), University of Notre Dame: Alston

Louis P. Pojman (L.P.P.), United States Military Academy, West Point: agnoiology, agnosticism, apocatastasis, atheism, Basilides, Buchmanism, gnosticism, Gregory of Nyssa, meliorism, Origen, relativism, Valentinus, Westermarck

Richard H. Popkin (R.H.P.), University of California, Los Angeles: Charron, Ha-Levi, Mendelsohn, Montaigne, Sanches, Sextus Empiricus, Skeptics

John F. Post (J.F.P.), Vanderbilt University: naturalism

Carl J. Posy (C.J.P.), Duke University: choice sequence, mathematical intuitionism, philosophy of mathematics

William J. Prior (W.J.P.), Santa Clara University: ananke, divided line, physis, ring of Gyges, ship of Theseus, Socratic irony, techne

Richard Purtill (R.P.), Western Washington University: a fortiori argument, argument, consequentia mirabilis, equippolence, equivalence, Euler diagram, principle of bivalence, principle of contradiction, principle of excluded middle, Venn diagram

Philip L. Quinn (P.L.Q.), University of Notre Dame: divine command ethics, double truth, philosophy of religion, Swinburne, transsubstantiation, Trinitarianism

Elizabeth S. Radcliffe (E.S.R.), Santa Clara University: Gay, Hutcheson, moral sense theory, sentimentalism, Shaftesbury, Wollaston

Diana Raffman (D.R.), Ohio State University; and Walter Sinnott-Armstrong (W.S.-A.), Dartmouth College: Marcus

Gerard Raulet (G.Ra.), Groupe de Recherche sur la Culture de Weimar, Paris: Kleist, Lessing

Stephen L. Read (S.L.R.), University of St. Andrews: exponible, many-valued logic, pluralitive logic, relevance logic

Nicholas Rescher (N.R.), University of Pittsburgh: idealism

Henry S. Richardson (H.S.R.), Georgetown University: Nussbaum

Robert C. Richardson (R.C.R.), University of Cincinnati: Coase theorem, philosophy of economics

William L. Rowe (W.L.R.), Purdue University: agent causation, antinomianism, causa sui, Clarke, immanence, prime mover, privation, theological naturalism
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. M. Rudavsky (T.M.R.)</td>
<td>Ohio State University: Abrabanel, Isaac; Abrabanel, Judah; Crescas</td>
<td></td>
</tr>
<tr>
<td>Michael Ruse (M.Ru.)</td>
<td>University of Guelph: creationism, evolutionary epistemology, social biology</td>
<td></td>
</tr>
<tr>
<td>Bruce Russell (B.R.)</td>
<td>Wayne State University: definitist, duty, egoism, good-making characteristic, intuition, self-evidence</td>
<td></td>
</tr>
<tr>
<td>Lilly-Marlene Russow (L.-M.R.)</td>
<td>Purdue University: imagination</td>
<td></td>
</tr>
<tr>
<td>R. M. Sainsbury (R.M.S.)</td>
<td>King’s College, University of London: sorites paradox, unexpected examination paradox, Zeno’s paradoxes</td>
<td></td>
</tr>
<tr>
<td>Nathan Salmon (N.S.)</td>
<td>University of California, Santa Barbara; Kripke</td>
<td></td>
</tr>
<tr>
<td>Wesley C. Salmon (W.C.S.)</td>
<td>University of Pittsburgh: confirmation, problem of induction, Reichenbach, theoretical term</td>
<td></td>
</tr>
<tr>
<td>Marco Santambrogio (M.Sa.)</td>
<td>University of Cagliari: Eco</td>
<td></td>
</tr>
<tr>
<td>David Sapire (D.S.)</td>
<td>University of The Witwatersrand: disposition, propensity, state</td>
<td></td>
</tr>
<tr>
<td>Ruth A. Saunders (R.A.Sa.)</td>
<td>Wayne State University: Piaget</td>
<td></td>
</tr>
<tr>
<td>Geoffrey Sayre-McCord (G.S.-M.)</td>
<td>University of North Carolina, Chapel Hill: fact–value distinction</td>
<td></td>
</tr>
<tr>
<td>Charles Sayward (C.S.)</td>
<td>University of Nebraska, Lincoln: conventionalism, deduction, diagonal procedure, formal semantics, open formula, propositional function, quantification</td>
<td></td>
</tr>
<tr>
<td>James P. Scanlan (J.P.Sc.)</td>
<td>Ohio State University: Lenin, Plekhanov</td>
<td></td>
</tr>
<tr>
<td>Richard Schacht (R.Sc.)</td>
<td>University of Illinois, Urbana-Champaign: Nietzsche, philosophical anthropology</td>
<td></td>
</tr>
<tr>
<td>Frederick F. Schmitt (F.F.S.)</td>
<td>University of Illinois, Urbana-Champaign: Goldman</td>
<td></td>
</tr>
<tr>
<td>Jerome B. Schneewind (J.B.S.)</td>
<td>Johns Hopkins University: classical republicanism, Crusius, Cumberland, du Vair, Filmer, Godwin, Grotius, human nature, natural law, Prichard, Pufendorf, Scottish common sense philosophy, Sidgwick, Stephen</td>
<td></td>
</tr>
<tr>
<td>Calvin O. Schrag (C.O.S.)</td>
<td>Purdue University: pluralism, praxis, speculative philosophy</td>
<td></td>
</tr>
<tr>
<td>Alan D. Schrift (A.D.S.)</td>
<td>Grinnell College: Lyotard</td>
<td></td>
</tr>
<tr>
<td>George F. Schumm (G.F.S.)</td>
<td>Ohio State University: Boolean algebra, completeness, conditional proof, conjunction elimination, conjunction introduction, De Morgan’s laws, dilemma, disjunction elimination, disjunction introduction, distributive laws, double negation, existential import, exportation, formal logic, Hintikka set, logical constant, logic system, meaning postulate, modus ponens, modus tollens, paraconsistency, Peirce’s law, reductio ad absurdum, relational logic, singular term, soundness, transformation rule, universal instantiation, valid, well-formed formula, Appendix of Special Symbols</td>
<td></td>
</tr>
<tr>
<td>Jean-Loup Seban (J.-L.S.)</td>
<td>Faculté Universitaire de Théologie Protestante de Bruxelles: Brunschvicg, Cournot, Couturat, d’Ailly, d’Alembert, de Maistre,</td>
<td></td>
</tr>
</tbody>
</table>
d’Holbach, Diderot, Encyclopedia, Fontenelle, Huygens, Jansenism, La Mettrie, La Peyrère, Luther, Saint-Simon, Swedenborgianism, synergism, Troeltsch, Valentinianism, Vauvenargues

David N. Sedley (D.N.S.), Christ’s College, University of Cambridge: Epicureanism, Hellenistic philosophy, Stoicism

Kenneth Seeskin (K.See.), Northwestern University: Buber, Rosenzweig

Krister Segerberg (K.Seg.), University of Uppsala: dynamic logic

Charlene Haddock Seigfried (C.H.S.), Purdue University: Paine, pragmatism

Dennis M. Shenck (D.M.S.), Indiana University: philosophy of education

James F. Sennett (J.F.S.), McNeese State University: Plantinga

William Lad Sessions (W.L.S.), Washington and Lee University: Tillich

Stewart Shapiro (S.Sha.), Ohio State University: effective procedure, mathematical structuralism, second-order logic

Donald W. Sherburne (D.W.S.), Vanderbilt University: Whitehead

Roger A. Shiner (R.A.Sh.), University of Alberta: Dworkin, jury nullification, legal realism, philosophy of law, responsibility

Sydney Shoemaker (S.Sho.), Cornell University: Malcolm, personal identity, physicalism, qualia, spatiotemporal continuity

Robert K. Shope (R.K.S.), University of Massachusetts, Boston: Lewis, C. I.

Kwong-loi Shun (K.-l.S.), University of California, Berkeley: chih²; Chuang Tzu; chung, shu; Confucianism; Confucius; Four Books; Han Fei Tzu; hsing; jen: Kao Tzu; ko wu, chih chih; li²: Mo Tzu; wu wei; yi; yang

Wilfried Sieg (W.S.), Carnegie-Mellon University: Church’s thesis, consistency, formalization, proof theory

Marcus G. Singer (M.G.S.), University of Wisconsin, Madison: moral epistemology, polarity, universalizability

Georgette Sinkler (G.S.), University of Illinois, Chicago: Bacon, Roger; Gregory of Rimini; Grosseteste; John of Salisbury

Walter Sinnott-Armstrong (W.S.-A.), Dartmouth College: impartiality, moral dilemma, moral skepticism

Matti T. Sintonen (M.T.S.), University of Helsinki: Hintikka

Lawrence Sklar (L.S.), University of Michigan: philosophy of science

Brian Skyrms (B.Sk.), University of California, Irvine: induction, inductivism, mathematical induction, maximin strategy

Robert C. Skelton (R.C.Sl.), University of Massachusetts, Amherst: Leibniz

Michael Anthony Slote (M.A.Sl.), University of Maryland, College Park: satisfisc

Hans Sluga (H.S.), University of California, Berkeley: Wittgenstein

Barry Smith (B.Sm.), State University of New York, Buffalo: Ingarden

Michael Smith (M.Sm.), Australian National University: direction of fit, moral rationalism

Robin Smith (R.Sm.), Texas A & M University: dialectic

Robert Sokolowski (R.So.), The Catholic University of America: Husserl

Robert C. Solomon (R.C.So.), University of Texas, Austin: Camus, Sartre
CONTRIBUTORS

Philip Soper (P.S.), University of Michigan: civil disobedience, jurisprudence, legal moralism, legal positivism, rule of law
Ernest Sosa (E.S.), Brown University: Chisholm, condition, justification, skepticism, state of affairs
Paul Vincent Spade (P.V.S.), Indiana University: complexe significabile, genus generalissimum, Heytesbury, Kilvington, praedicamenta, predicables, proprietates terminorum, proprium, secundum quid, suppositio, syncategoremata
T. L. S. Sprigge (T.L.S.S.), University of Edinburgh: ethical objectivism, panpsychism
Eric O. Springsted (E.O.S.), Illinois College: Weil
George J. Stack (G.J.S.), State University of New York, Brockport: Avenarius; Beneke; Czolbe; Hartmann, E. von; Lange; Spir; Steiner; Stirner; Teichmüller
Jason Stanley (J.Sta.), Cornell University: Chomsky
Sören Stenlund (S.St.), Uppsala University: combinatorial logic
James P. Sterba (J.P.St.), University of Notre Dame: ideology, political philosophy
Josef Stern (J.Ste.), University of Chicago: Gersonides, Philo Judaeus
Matthias Steup (M.St.), Saint Cloud State University: Clifford, diannelon, epistemic deontologism, problem of the criterion
M. A. Stewart (M.A.St.), University of Lancaster: Fordyce, Ray, Stillingfleet, Turnbull
Frederick Suppe (F.S.), University of Maryland, College Park: abduction, eduction, modality, operationalism
Jere Paul Surber (J.P.Su.), University of Denver: Erfahrung, Feuerbach, Herder, Humboldt, Krause, Lebensphilosophie, Lotze
Zeno G. Swijtink (Z.G.S.), Indiana University: Beth’s definability theorem, categorical theory, Craig’s interpolation theorem, model theory, satisfiable, standard model
Richard Swinburne (R.Sw.), Oriel College, University of Oxford: miracle
Edith Dudley Sulla (E.D.S.), North Carolina State University: Oxford Calculators
Paul Teller (P.Te.), University of California, Davis: field theory, reduction
Larry S. Temkin (L.S.T.), Rutgers University: Parfit
H. S. Thayer (H.S.T.), City University of New York: Newton
Alan Thomas (A.T.), University of Kent at Canterbury: Williams
Terrence N. Tice (T.N.T.), University of Michigan: Schleiermacher
Paul Tidman (P.Ti.), Mount Union College: conceivability
Mark C. Timmons (M.C.T.), University of Memphis: constitution; ideal observer; Nagel, Thomas; objective rightness; resultance
William Tolhurst (W.T.), Northern Illinois University: externalism, free rider, slippery slope argument, vicious regress
James E. Tomberlin (J.E.T.), California State University, Northridge: Castañeda, deontic logic, deontic paradoxes

xxiv
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/Title</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rosemarie Tong (R.T.)</td>
<td>University of North Carolina, Charlotte: feminist</td>
<td></td>
</tr>
<tr>
<td>J. D. Trout (J.D.T.)</td>
<td>Loyola University of Chicago: alchemy, belief revision, empirical decision theory, scientific realism, uniformity of nature</td>
<td></td>
</tr>
<tr>
<td>Martin M. Tweedale (M.M.T.)</td>
<td>University of Alberta: Abelard, Roscelin</td>
<td></td>
</tr>
<tr>
<td>Thomas Uebel (T.U.)</td>
<td>London School of Economics: Vienna Circle</td>
<td></td>
</tr>
<tr>
<td>James Van Cleve (J.V.C.)</td>
<td>Brown University: dependence</td>
<td></td>
</tr>
<tr>
<td>Harry van der Linden (H.v.d.L.)</td>
<td>Butler University: Cohen, neo-Kantianism, Windelband</td>
<td></td>
</tr>
<tr>
<td>Peter van Inwagen (P.v.I.)</td>
<td>University of Notre Dame: subsistence</td>
<td></td>
</tr>
<tr>
<td>Bryan W. Van Norden (B.W.V.N.)</td>
<td>Vassar College: cheng ming; ch‘ing; Chung-yung: fa; hsiao; hsin⁰¹; Kung-sun Lung Tzu; Lao Tzu; li²; Mencius; ming; shang ti; Ta-hsiēh; tao; te; t‘ien; wang, pa; yü</td>
<td></td>
</tr>
<tr>
<td>Donald Phillip Verene (D.P.V.)</td>
<td>Emory University: Cassirer, Croce, Vico</td>
<td></td>
</tr>
<tr>
<td>Thomas Vinci (T.V.)</td>
<td>Dallhousie University: given; immediacy; Sellars, Wilfrid; solipsism</td>
<td></td>
</tr>
<tr>
<td>Donald Wayne Viney (D.W.V.)</td>
<td>Pittsburgh State University: Hartshorne</td>
<td></td>
</tr>
<tr>
<td>Barbara Von Eckardt (B.V.E.)</td>
<td>University of Nebraska, Lincoln: Fodor</td>
<td></td>
</tr>
<tr>
<td>Steven J. Wagner (S.J.W.)</td>
<td>University of Illinois, Urbana-Champaign: accident, Cambridge change, identity, per accidens, proposition, relation</td>
<td></td>
</tr>
<tr>
<td>William J. Wainwright (W.J.Wa.)</td>
<td>University of Wisconsin, Milwaukee: deism, demiurge, Edwards, natural religion, Paley</td>
<td></td>
</tr>
<tr>
<td>Paul E. Walker (P.E.W.)</td>
<td>University of Chicago: al-Kindî, Ibn Bâjja, Ibn Ṭûfayl, Islamic Neoplatonism, kalam</td>
<td></td>
</tr>
<tr>
<td>Robert E. Wall (R.E.W.)</td>
<td>University of Texas, Austin: donkey sentences, formal learnability theory, grammar, parsing</td>
<td></td>
</tr>
<tr>
<td>Craig Walton (C.Wa.)</td>
<td>University of Nevada, Las Vegas: Ramus</td>
<td></td>
</tr>
<tr>
<td>Douglas Walton (D.W.)</td>
<td>University of Winnipeg: informal fallacy, informal logic</td>
<td></td>
</tr>
<tr>
<td>Michael V. Wedin (M.V.W.)</td>
<td>University of California, Davis: Aristotle</td>
<td></td>
</tr>
<tr>
<td>Rudolph H. Weingartner (R.H.W.)</td>
<td>University of Pittsburgh: Simmel</td>
<td></td>
</tr>
<tr>
<td>Paul Weirich (P.We.)</td>
<td>University of Missouri, Columbia: Allais’s paradox, bargaining theory, Bertrand’s box paradox, Bertrand’s paradox, Comte, Condorcet, Laplace, Newcomb’s paradox, Saint Petersburg paradox</td>
<td></td>
</tr>
<tr>
<td>Paul J. Weithman (P.J.W.)</td>
<td>University of Notre Dame: liberalism</td>
<td></td>
</tr>
<tr>
<td>Carl Wellman (C.We.)</td>
<td>Washington University: Hofhfeld, rights</td>
<td></td>
</tr>
<tr>
<td>Howard Wettstein (H.W.)</td>
<td>University of California, Riverside: causal theory of proper names</td>
<td></td>
</tr>
<tr>
<td>Samuel C. Wheeler III (S.C.W.)</td>
<td>University of Connecticut: deconstruction</td>
<td></td>
</tr>
<tr>
<td>Stephen A. White (S.A.W.)</td>
<td>University of Texas, Austin: Lyceum, Megarians, myth of Er, Pyrrho of Elis, Strato of Lampsacus</td>
<td></td>
</tr>
</tbody>
</table>
CONTRIBUTORS

Edward R. Wierenga (E.R.W.), University of Rochester: creation ex nihilo, disembodiment, divine attributes, divine foreknowledge, paradox of omniscience

Michael Williams (M.W.), Northwestern University: contextualism, logical construction

Fred Wilson (F.W.), University of Toronto: Mill, J. S.; Mill’s methods

W. Kent Wilson (W.K.W.), University of Illinois, Chicago: ambiguity, count noun, equivocation, formal fallacy, linguistic relativity, open texture, theory of signs

Kenneth P. Winkler (K.P.W.), Wellesley College: Collier, sensationalism

John F. Wippel (J.F.W.), The Catholic University of America: Aquinas, Giles of Rome, Godfrey of Fontaines, Henry of Ghent, Thomism

Allan B. Wolter (A.B.W.), The Catholic University of America: Duns Scotus

Nicholas P. Wolterstorff (N.P.W.), Yale University: aesthetic formalism, empiricism, Locke, metaphor, mimesis

Rega Wood (R.W.), New Haven, Conn.: Alexander of Hales, Burley, Olivi, Richard Rufus, Wodeham

W. Jay Wood (W.J.Wo.), Wheaton College: Lewis, C. S.

Paul Woodruff (P.Wo.), University of Texas, Austin: Academy, arete, dunamis, entelechy, Gorgias, hyle, hylomorphism, Isocrates, New Academy, Thrasymachus

Takashi Yagisawa (T.Y.), California State University, Northridge: definiendum, definition, intensionality, logical syntax, rational reconstruction, Sapir-Whorf hypothesis

Yutaka Yamamoto (Y.Y.), University of New Hampshire: cognitive psychotherapy


Günter Zoller (G.Z.), Ludwig Maximillian University, Munich: Goethe

Jack A. Zupko (J.A.Z.), San Diego State University: Bonaventure, Buridan, Nicholas of Autrecourt, William of Axerre
PREFACE TO THE FIRST EDITION

PHILOSOPHY HAS ALWAYS DONE extraordinary things with ordinary terms – ‘believe’ and ‘know’, ‘cause’ and ‘explain’, ‘space’ and ‘time’, ‘justice’ and ‘goodness’, ‘language’ and ‘meaning’, ‘truth’ and ‘beauty’, ‘art’, ‘religion’, ‘science’, ‘mind’, ‘perception’, ‘reason’, and countless others. The field has numerous technical terms that are also difficult to define, but it presents a dictionary maker with an even greater challenge because of what it does with our everyday vocabulary. I mean not only the kinds of common words just listed but many perhaps humbler-sounding terms like ‘accident’, ‘action’, ‘grammar’, ‘set’, and ‘vague’. All of the everyday terms characterized in this volume are defined – in some manner – in standard dictionaries of the English language or covered in one or another encyclopedia. But many readers of philosophy – especially lay readers and those in other fields – need something quite different from both, a reference work much more specialized than the former and much less voluminous than the latter. However large they may be, ordinary dictionaries, even when accurate, are insufficiently informative to help readers who must look up terms for philosophical reasons; and, even when philosophically illuminating, encyclopedias and specialized reference books are often too lengthy, and sometimes too diffuse, to give readers a concise statement of what is philosophically central in the use of a term. This dictionary responds to the need for a comprehensive, multi-author philosophical reference work that is at once enormously wide in scope, intermediate in size, and authoritative in content. In far less space than is needed for comparable entries in an encyclopedia of philosophy or in a handbook devoted to a single subfield, this volume treats the multitude of subjects appropriate to a dictionary of philosophy with some of the depth made possible by specialist authors. It does this, so far as possible, in a way that makes many of its entries interesting reading for people simply curious about the intriguing concepts or the profound thinkers of the field.

In the first half of this century, the major philosophical dictionary published in English was James Mark Baldwin’s Dictionary of Philosophy and Psychology, a multi-author work published by Peter Smith of Gloucester, Massachusetts; it appeared in 1901 in two volumes (followed by a bibliography in 1905) and was reprinted with revisions in 1925. In the second half of the century, dictionaries of philosophy in English have been much smaller than Baldwin’s and either written by a single author or, occasionally, prepared by a group of writers rarely much larger than a dozen working within the confines of a small space. Few of the entries in these books are longer than 500 words; the most typical have been sketches of 150 words or less.

This dictionary, by contrast, is the work of an international team that includes 381 carefully selected contributors representing the major subfields of philosophy
and many philosophical traditions. It contains substantial treatments of major philosophers, many of these entries running to several thousand words. It has hundreds of entries, often of 500 to 1,000 words, on other significant thinkers, and thousands of brief definitions of philosophically important terms. In addition, it provides detailed overviews, some more than 6,000 words, of the subfields of philosophy, such as epistemology, ethics, metaphysics, philosophy of mind, and philosophy of science. It supplies numerous cross-references to help readers in comprehending philosophical ideas, in understanding the terminology of the discipline, and in appreciating philosophers themselves. There are hundreds of entries on important terms and thinkers from non-Western philosophy, for instance from the Chinese, Indian, Japanese, and Korean traditions. The dictionary also covers a number of philosophically significant thinkers and terms from fields closely related to philosophy, including computer science, economics, law, linguistics, literature, mathematics, psychology and other behavioral sciences, and religion. The Appendix defines logical symbols and identifies other special symbols used in philosophy.

In an era that is producing a plethora of encyclopedias, companions, handbooks, and similar reference works, something more should be said about the need for a philosophical dictionary. These kinds of reference works differ significantly: a dictionary is definitional, though like this one it may be far more than that; encyclopedias, companions, and similar works sometimes do not define the terms that head their entries, and the main purposes of these works tend to be informational, historical, and bibliographical. There is no sharp distinction here; a definition may be informative, and the right kind of information about a topic can serve to define the concept in question. But in practice a good definition captures what is conceptually central to its target subject in a way that an encyclopedia or handbook article often does not (and need not) do at all, and quite commonly does not do in any brief, initial formulation.

A purist might think that a dictionary should exclude entries on thinkers altogether, on the ground that proper names do not admit of definition. Even if, strictly speaking, this should be true, it is perfectly intelligible to ask what Socrates, for instance, means to philosophers, or who he was, philosophically speaking. Such questions about thinkers are among the kinds appropriately treated in a philosophical dictionary and likely to interest general readers as well as many in the field of philosophy. Answering them does not require bibliography or extensive biography, and to include either of these would have meant a much longer and quite different volume. Primary texts are often cited in entries that focus on philosophers; but those entries are mainly devoted to central ideas of the thinkers in question. As compared, however, with the other, much smaller contemporary philosophical dictionaries in English, this one has more depth, particularly in entries on major philosophers, on subfields of philosophy, and on pivotal philosophical concepts.

Although the scope of this volume extends beyond Western philosophy and indeed beyond philosophy narrowly conceived, the central focus is on Western philosophers and Western thought. We have sought comprehensiveness, but make no pretense of completeness. Even with entries and subentries covering more than 4,000 concepts and philosophers, we could not include every philosophically sig-
nificant term, or every thinker, that people interested in philosophy or reading philosophical literature might want to look up. This applies particularly to the areas where philosophy overlaps other fields, such as cognitive science, economic theory, feminist studies, linguistics, literary theory, mathematics, philosophy, and religion. We have, however, sought to include enough entries to assist readers both in approaching a great variety of “purely” philosophical texts and in comprehending a substantial range of interdisciplinary philosophical works.

To avoid distraction and interruptions of the text, internal cross-references (the “See also” ones) are supplied only at the ends of entries. The external cross-references (the “See” ones) are alphabetized along with the main entries and refer the reader to one or more entries that deal with the term or thinker in question. Internal cross-references are not generally used where it seems obvious what sorts of other entries might be consulted for supplementary or related information. The number of internal cross-references has also been kept small. This is in part to avoid diffusing the reader’s efforts and in part because the Dictionary has entries that cover most of the philosophers discussed in the text and the vast majority of the philosophical terms the contributors use in their entries. Pursuing the cross-references that are supplied, however, will often lead to other useful ones and to a better understanding of the topic a reader originally looks up.

Many philosophers still living when the Dictionary went to press are cited in the Index of Names, which lists, for each name cited, one or more entries providing information about the person in question. The names included represent more than 600 philosophers and thinkers from all periods of philosophy who are not subjects of entries devoted entirely to their work. There are several reasons why the Dictionary does not contain entries focusing entirely on living figures. Above all, many who would have such entries, including most of the senior philosophers cited in the Index, are still producing philosophical work, and it should not be presumed that adequate portraits of them can be done at this time. The task of writing a description that is both sufficiently short for a volume like this and intellectually adequate is often impossible without a measure of historical distance. In many cases, readers will find helpful information through the Index, which lists hundreds of contemporary philosophers and many other thinkers (though by no means all of the numerous personal names mentioned in the main entries). There are, of course, many important figures in the field whom contributors unfortunately could not bring into the tight confines of their entries.

Some readers might be surprised to find that there is no entry simply on philosophy itself. This is partly because no short definition is adequate. It will not do to define ‘philosophy’ in the etymological way many have, as ‘the love of wisdom’: granting that it is natural for philosophers to love wisdom and for many lovers of wisdom to be inspired to pursue philosophy, a lover of wisdom can be quite unphilosophical, and even a good philosopher can be wise in at most a few domains of inquiry. Perhaps a great many philosophers (though certainly not all of them) would agree that philosophy is roughly the critical, normally systematic, study of an unlimited range of ideas and issues; but this characterization says nothing about what sorts of ideas and issues are central in philosophy or about its distinctive methods of studying them. In a way, this dictionary as a whole presents a conception of philosophy, one that is rich in content and widely representative of
what has been, is, and perhaps will long continue to be, generally viewed as philosophical work. Those wanting a sense of what a good definition of ‘philosophy’ must encompass might fruitfully consider how one can define the concerns central to a number of major philosophers representing different periods, styles of philosophy, and cultures. One such list might include Plato, Aristotle, Aquinas, Descartes, Hume, Kant, Hegel, Mill, Peirce, Heidegger, and Wittgenstein. We might also try to construct a unifying characterization of some of the basic fields of philosophy—for instance epistemology, ethics, logic, and metaphysics—and beyond this, one should also consider what is central in such subfields as aesthetics, philosophy of history, philosophy of language, philosophy of logic, philosophy of mind, philosophy of religion, and philosophy of science. Reading the entries on these philosophers and fields will probably yield a much better indication of what philosophy is than we could expect from even a thousand-word entry.

Three features of the text may, for some readers, need comment. First, following a practice common among careful philosophical writers, we place single quotation marks around words or longer expressions when those expressions are named or directly referred to, as where one says that the term ‘argument’ may designate either the process of arguing or an argument presented therein. The second point concerns terms beginning with ‘non’, such as ‘non-mental’. Except where such terms have a well-established use as words whose meaning is, like that of ‘nonviolence’ and ‘noncombatant’, not merely that of the negation of their basic, positive element, our practice is to place a hyphen after ‘non’. An example should bring out the difference. Anything at all that is not a combatant—anything from ships and shoes and sealing wax to hills, brooks, standing lakes, and groves—is a non-combatant, but these things are not thereby noncombatants. Thus, ‘noncombatant’, ‘nonviolence’, ‘nonstarter’, and ‘noncognitivism’ appear as just written, whereas ‘non-mental’ and ‘non-inferential’ are hyphenated. This practice reflects a natural tendency of most philosophers and may be grounded partly in the sense that when used to form a complementary term, ‘non’ plays a special and very important role: more that of an operator on an established term than the role of a prefix creating a semantically distinctive term. The third point here concerns the substitution of an everyday word for a term often used by philosophers in a technical way. Both for brevity and to aid readers not familiar with the technical use of ‘just in case’, we have frequently used ‘provided’ instead of ‘just in case’ where the latter is equivalent to ‘if and only if’. This substitution might have gone unnoticed by anyone other than the contributors affected by it, and no one consulted on the matter has judged that the substitution alters content; but I mention the change just in case anyone should be curious about it.

It is probably impossible to produce a work of this kind without errors, especially errors of omission. Comprehensiveness, of course, does not require completeness (supposing there is a clear notion of completeness for a work like this); nor is completeness even possible in a dictionary covering a dynamic and growing field. I would be happy to receive comments or corrections and will undertake to send them to the appropriate contributor(s) and to file them for possible future use. Two further comments may be in order here. First, although the length of the entries is not unrelated to the importance of their topics, other factors, such as the complexity of the concept in question, the degree of current or recent interest in