1. EPISTEMOLOGY AS A NORMATIVE INQUIRY

In this section, Kim argues that “Epistemology is a normative discipline as much as, and in the same sense as, normative ethics.” In particular, he argues that epistemology is dominated by the concept of justification, and that justification is a strongly normative notion, i.e. a justified belief is good or right in some way.

“But justification manifestly is normative. If a belief is justified for us, then it is permissible and reasonable, from the epistemic point of view, for us to hold it, and it would be epistemically irresponsible to hold beliefs that contradict it. ... It probably is only an historical accident that we standardly speak of “normative ethics” but not of “normative epistemology”.

Another key point of this section is that, while justification is a normative concept,

the criteria of justified belief must be formulated on the basis of descriptive or naturalistic terms alone, without the use of any evaluative or normative ones, whether epistemic or of another kind.3

For this reason, an analysis of justified belief that makes use of such terms as “intellectual requirement”4 and “having a right to be sure”5 would not satisfy this generalized condition.

2. THE FOUNDATIONALIST STRATEGY

In this section Kim summarises the foundationalist approach to knowledge, and their reliance on basic beliefs.

3. QUINE’S ARGUMENTS

It has become customary for epistemologists who profess allegiance to a “naturalistic” conception of knowledge to pay homage to Quine as the chief contemporary provenance of their inspiration—especially to his influential paper “Epistemology Naturalized”.8 Quine’s principal argument in this paper against traditional epistemology is based on the claim that the Cartesian foundationalist program has failed—that the Cartesian “quest for certainty” is “a lost cause”. While this claim about the hopelessness of the Cartesian “quest for certainty” is nothing new, using it to discredit the very conception of normative epistemology is new, something that any serious student of epistemology must contend with.

Quine divides the classic epistemological program into two parts: conceptual reduction whereby physical terms, including those of theoretical science, are reduced, via definition, to terms referring to phenomenal features of sensory experience; and doctrinal reduction whereby truths about the physical world are appropriately obtained from truths about sensory experience. The “appropriateness” just alluded to refers to the requirement that the favored epistemic status (“certainty” for classic epistemologists, according to Quine) of our basic beliefs be transferred, essentially undiminished, to derived beliefs, a necessary requirement if the derivational process is to yield knowledge from knowledge. What derivational methods have this property of preserving epistemic status? Perhaps there are none, given our proneness to err in framing derivations as in anything else, not to mention the possibility of lapses of attention and memory in following lengthy proofs. But logical deduction comes as close to being one as any; it can at least be relied on to transmit truth, if not epistemic status. It could perhaps be argued that no method can preserve certainty unless it preserves (or is known to preserve) truth; and if this is so, logical deduction is the only method worth considering. I do not know whether this was the attitude of most classic epistemologists; but Quine assumes that if deduction doesn’t fill their bill, nothing will.

Quine sees the project of conceptual reduction as culminating in Carnap’s Der Logische Aufbau der Welt. As Quine sees it, Carnap “came nearest to executing” the conceptual half of the classic epistemological project. But coming close is not good enough. Because of the holistic
manner in which empirical meaning is generated by experience, no reduction of the sort Carnap and others so eagerly sought could in principle be completed. For definitional reduction requires point-to-point meaning relations between physical terms and phenomenal terms, something that Quine’s holism tells us cannot be had. The second half of the program, doctrinal reduction, is in no better shape; in fact, it was the one to stumble first, for, according to Quine, its impossibility was decisively demonstrated long before the Aufbau, by Hume in his celebrated discussion of induction. The “Humean predicament” shows that theory cannot be logically deduced from observation; there simply is no way of deriving theory from observation that will transmit the latter’s epistemic status intact to the former.

I don’t think anyone wants to disagree with Quine in these claims. It is not possible to “validate” science on the basis of sensory experience, if “validation” means justification through logical deduction. Quine of course does not deny that our theories depend on observation for evidential support; he has said that sensory evidence is the only evidence there is. To be sure, Quine’s argument against the possibility of conceptual reduction has a new twist: the application of his “holism”. But his conclusion is no surprise; “translational phenomenalism” has been moribund for many years. And, as Quine himself notes, his argument against the doctrinal reduction, the “quest for certainty”, is only a restatement of Hume’s “sceptical” conclusions concerning induction: induction after all is not deduction. Most of us are inclined, I think, to view the situation Quine describes with no great alarm, and I rather doubt that these conclusions of Quine’s came as news to most epistemologists when “Epistemology Naturalized” was first published. We are tempted to respond: of course we can’t define physical concepts in terms of sense-data; of course observation “underdetermines” theory. That is why observation is observation and not theory.

So it is agreed on all hands that the classical epistemological project, conceived as one of deductively validating physical knowledge from indubitable sensory data, cannot succeed. But what is the moral of this failure? What should be its philosophical lesson to us? Having noted the failure of the Cartesian program, Quine goes on.11

The stimulation of his sensory receptors is all the evidence anybody has had to go on, ultimately, in arriving at his picture of the world.

Why not just see how this construction really proceeds? Why not settle for psychology? Such a surrender of the epistemological burden to psychology is a move that was disallowed in earlier times as circular reasoning. If the epistemologist’s goal is validation of the grounds of empirical science, he defeats his purpose by using psychology or other empirical science in the validation. However, such scruples against circularity have little point once we have stopped dreaming of reducing science from observation. If we are out simply to understand the link between observation and science, we are well advised to use any available information, including that provided by the very science whose link with observation we are seeking to understand.

And Quine has the following to say about the failure of Carnap’s reductive program in the Aufbau:12

To relax the demand for definition, and settle for a kind of reduction that does not eliminate, is to renounce the last remaining advantage that we supposed rational reconstruction to have over straight psychology; namely, the advantage of translational reduction. If all we hope for is a reconstruction that links science to experience in explicit ways short of translation, then it would seem more sensible to settle for psychology. Better to discover how science is in fact developed and learned than to fabricate a fictitious structure to a similar effect.

If a task is entirely hopeless, if we know it cannot be executed, no doubt it is rational to abandon it; we would be better off doing something else that has some hope of success. We can agree with Quine that the “validation”—that is, logical deduction—of science on the basis of observation cannot be had; so it is rational to abandon this particular epistemological program, if indeed it ever was a program that anyone seriously undertook. But Quine’s recommendations go further. In particular, there are two aspects of Quine’s proposals that are of special interest to us: first, he is not only advising us to quit the program of “validating science”, but urging us to take up another specific project, an empirical psychological study of our cognitive processes; second, he is also claiming that this new program replaces the old, that both programs are part of something appropriately called “epistemology”. Naturalized epistemology is to be a kind of epistemology after all, a “successor subject”13 to classical epistemology.
How should we react to Quine’s urgings? What should be our response? The Cartesian project of validating science starting from the indubitable foundation of first-person psychological reports (perhaps with the help of certain indubitable first principles) is not the whole of classical epistemology—or so it would seem at first blush. In our characterization of classical epistemology, the Cartesian program was seen as one possible response to the problem of epistemic justification, the two-part project of identifying the criteria of epistemic justification and determining what beliefs are in fact justified according to those criteria. In urging “naturalized epistemology” on us, Quine is not suggesting that we give up the Cartesian foundationalist solution and explore others within the same framework—perhaps, to adopt some sort of “coherentist” strategy, or to require of our basic beliefs only some degree of “initial credibility” rather than Cartesian certainty, or to permit some sort of probabilistic derivation in addition to deductive derivation of nonbasic knowledge, or to consider the use of special rules of evidence, like Chisholm’s “principles of evidence”, or to give up the search for a derivational process that transmits undiminished certainty in favor of one that can transmit diminished but still useful degrees of justification. Quine’s proposal is more radical than that. He is asking us to set aside the entire framework of justification-centered epistemology. That is what is new in Quine’s proposals. Quine is asking us to put in its place a purely descriptive, causal-nomological science of human cognition.

How should we characterize in general terms the difference between traditional epistemological programs, such as foundationalism and coherence theory, on the one hand and Quine’s program of naturalized epistemology on the other? Quine’s stress is on the factual and descriptive character of his program; he says, “Why not see how [the construction of theory from observation] actually proceeds? Why not settle for psychology?” Again, “Better to discover how science is in fact developed and learned than . . .” We are given to understand that in contrast traditional epistemology is not a descriptive, factual inquiry. Rather, it is an attempt at a “validation” or “rational reconstruction” of science. Validation, according to Quine, proceeds via deduction, and rational reconstruction via definition. However, their point is justificatory—that is, to rationalize our sundry knowledge claims. So Quine is asking us to set aside what is “rational” in rational reconstruction.

Thus, it is normativity that Quine is asking us to repudiate. Although Quine does not explicitly characterize traditional epistemology as “normative” or “prescriptive”, his meaning is unmistakable. Epistemology is to be “a chapter of psychology”, a law-based predictive-explanatory theory, like any other theory within empirical science; its principal job is to see how human cognizers develop theories (their “picture of the world”) from observation (“the stimulation of their sensory receptors”). Epistemology is to go out of the business of justification. We earlier characterized traditional epistemology as essentially normative; we see why Quine wants us to reject it. Quine is urging us to replace a normative theory of cognition with a descriptive science.

4. LOSING KNOWLEDGE FROM EPISTEMOLOGY

If justification drops out of epistemology, knowledge itself drops out of epistemology. For our concept of knowledge is inseparably tied to that of justification. As earlier noted, knowledge itself is a normative notion. Quine’s nonnormative, naturalized epistemology has no room for our concept of knowledge. It is not surprising that, in describing naturalized epistemology, Quine seldom talks about knowledge; instead, he talks about “science” and “theories” and “representations”. Quine would have us investigate how sensory stimulation “leads” to “theories” and “representation” of the world. I take it that within the traditional scheme these “theories” and “representations” correspond to beliefs, or systems of beliefs; thus, what Quine would have us do is to investigate how sensory stimulation leads to the formation of beliefs about the world. But in what sense of “lead”? I take it that Quine has in mind a causal or nomological sense. He is urging us to develop a theory, an empirical theory, that uncovers lawful regularities governing the processes through which organisms come to develop beliefs about their environment as a causal result of having their sensory receptors stimulated in certain ways. Quine says:

[Naturalized epistemology] studies a natural phenomenon, viz., a physical human subject. This human subject is accorded experimentally controlled input—certain patterns of irradiation in assorted frequencies, for instance—and in the fullness of time the subject delivers as output a description of the three-dimensional external world and its history. The relation between the meager input
and torrential output is a relation that we are prompted to study for somewhat the same reasons that always prompted epistemology; namely, in order to see how evidence relates to theory, and in what ways one's theory of nature transcends any available evidence.

The relation Quine speaks of between “meager input” and “torrential output” is a causal relation; at least it is qua causal relation that the naturalized epistemologist investigates it. It is none of the naturalized epistemologist’s business to assess whether, and to what degree, the input “justifies” the output, how a given irradiation of the subject’s retinas makes it “reasonable” or “rational” for the subject to emit certain representational output. His interest is strictly causal and nomological: he wants us to look for patterns of lawlike dependencies characterizing the input-output relations for this particular organism and others of a like physical structure.

If this is right, it makes Quine’s attempt to relate his naturalized epistemology to traditional epistemology look at best lame. For in what sense is the study of causal relationships between physical stimulation of sensory receptors and the resulting cognitive output a way of “seeing how evidence relates to theory” in an epistemologically relevant sense? The causal relation between sensory input and cognitive output is a relation between “evidence” and “theory”; however, it is not an evidential relation. This can be seen from the following consideration: the nomological patterns that Quine urges us to look for are certain to vary from species to species, depending on the particular way each biological (and possibly nonbiological) species processes information, but the evidential relation in its proper normative sense must abstract from such factors and concern itself only with the degree to which evidence supports hypothesis.

In any event, the concept of evidence is inseparable from that of justification. When we talk of “evidence” in an epistemological sense we are talking about justification: one thing is “evidence” for another just in case the first tends to enhance the reasonableness or justification of the second. And such evidential relations hold in part because of the “contents” of the items involved, not merely because of the causal or nomological connections between them. A strictly nonnormative concept of evidence is not our concept of evidence; it is something that we do not understand.20

None of us, I think, would want to quarrel with Quine about the interest or importance of the psychological study of how our sensory input causes our epistemic output. This is only to say that the study of human (or other kinds of) cognition is of interest. That isn’t our difficulty; our difficulty is whether, and in what sense, pursuing Quine’s “epistemology” is a way of doing epistemology—that is, a way of studying “how evidence relates to theory”. Perhaps, Quine’s recommendation that we discard justification-centered epistemology is worth pondering; and his exhortation to take up the study of psychology perhaps deserves to be heeded also. What is mysterious is why this recommendation has to be coupled with the rejection of normative epistemology (if normative epistemology is not a possible inquiry, why shouldn’t the would-be epistemologist turn to, say, hydrodynamics or ornithology rather than psychology?). But of course Quine is saying more; he is saying that an understandable, if misguided, motivation (that is, seeing “how evidence relates to theory”) does underlie our proclivities for indulgence in normative epistemology, but that we would be better served by a scientific study of human cognition than normative epistemology.

But it is difficult to see how an “epistemology” that has been purged of normativity, one that lacks an appropriate normative concept of justification or evidence, can have anything to do with the concerns of traditional epistemology. And unless naturalized epistemology and classical epistemology share some of their central concerns, it’s difficult to see how one could replace the other, or be a way (a better way) of doing the other.21 To be sure, they both investigate “how evidence relates to theory”. But putting the matter this way can be misleading, and has perhaps misled Quine: the two disciplines do not investigate the same relation. As lately noted, normative epistemology is concerned with the evidential relation properly so-called—that is, the relation of justification—and Quine’s naturalized epistemology is meant to study the causal-nomological relation. For epistemology to go out of the business of justification is for it to go out of business.

5. BELIEF ATTRIBUTION AND RATIONALITY

In this section Kim argues that belief is itself an implicitly normative
concept, since the attribution of beliefs to agents must (to avoid radical under-determination) assume that the beliefs in question are more-or-less rational and coherent.

6. THE “PSYCHOLOGISTIC” APPROACH TO EPISTEMOLOGY

Many philosophers now working in theory of knowledge have stressed the importance of systematic psychology to philosophical epistemology. Reasons proffered for this are various, and so are the conceptions of the proper relationship between psychology and epistemology. But they are virtually unanimous in their rejection of what they take to be the epistemological tradition of Descartes and its modern embodiments in philosophers like Russell, C. I. Lewis, Roderick Chisholm, and A. J. Ayer; and they are united in their endorsement of the naturalistic approach of Quine we have been considering. Traditional epistemology is often condemned as “aprioristic”, and as having lost sight of human knowledge as a product of natural causal processes and its function in the survival of the organism and the species. Sometimes, the adherents of the traditional approach are taken to task for their implicit antiscientific bias or indifference to the new developments in psychology and related disciplines. Their own approach in contrast is hailed as “naturalistic” and “scientific”, better attuned to significant advances in the relevant scientific fields such as “cognitive science” and “neuroscience”, promising philosophical returns far richer than what the aprioristic method of traditional epistemology has been able to deliver. We shall here briefly consider how this new naturalism in epistemology is to be understood in relation to the classic epistemological program and Quine’s naturalized epistemology.

Let us see how one articulate proponent of the new approach explains the distinctiveness of his position vis-a-vis that of the traditional epistemologists. According to Philip Kitcher, the approach he rejects is characterized by an “apsychologistic” attitude that takes the difference between knowledge and true belief—that is, justification—to consist in “ways which are independent of the causal antecedents of a subject’s states”. Kitcher writes:

...we can present the heart of [the apsychologistic approach] by considering the way in which it would tackle the question of whether a person’s true belief that \( p \) counts as knowledge that \( p \). The idea would be to disregard the psychological life of the subject, looking just at the various propositions she believes. If \( p \) is ‘connected in the right way’ to other propositions which are believed, then we count the subject as knowing that \( p \). Of course, apsychologistic epistemology will have to supply a criterion for propositions to be ‘connected in the right way’ . . . but proponents of this view of knowledge will emphasize that the criterion is to be given in logical terms. We are concerned with logical relations among propositions, not with psychological relations among mental states. On the other hand, the psychologistic approach considers the crucial difference between knowledge and true belief—that is, epistemic justification—to turn on “the factors which produced the belief”, focusing on “processes which produce belief, processes which will always contain, at their latter end, psychological events”.

It is not entirely clear from this characterization whether a psychologistic theory of justification is to be prohibited from making any reference to logical relations among belief contents (it is difficult to believe how a theory of justification respecting such a blanket prohibition could succeed); nor is it clear whether, conversely, an apsychologistic theory will be permitted to refer at all to beliefs qua psychological states, or exactly what it is for a theory to do so. But such points of detail are unimportant here; it is clear enough, for example, that Goldman’s proposal to explicate justified belief as belief generated by a reliable belief-forming process nicely fits Kitcher’s characterization of the psychologistic approach. This account, one form of the so-called “reliability theory” of justification, probably was what Kitcher had in mind when he was formulating his general characterization of epistemological naturalism. However, another influential form of the reliability theory does not qualify under Kitcher’s characterization. This is Armstrong’s proposal to explain the difference between knowledge and true belief, at least for non-inferential knowledge, in terms of “a law-like connection between the state of affairs of a subject’s believing that \( p \) and the state of affairs which makes ‘\( p \)’ true such that, given the state of affairs of the subject's believing that \( p \), it must be the case that \( p \)”.

There is here no reference to the causal antecedents of beliefs, something that Kitcher requires of apsychologistic theories.

Perhaps, Kitcher’s preliminary characterization needs to be broadened and sharpened. However, a salient characteristic of the naturalistic
approach has already emerged, which we can put as follows: justification is to be characterized in terms of causal or nomological connections involving beliefs as psychological states or processes, and not in terms of the logical properties or relations pertaining to the contents of these beliefs.32

If we understand current epistemological naturalism in this way, how closely is it related to Quine’s conception of naturalized epistemology? The answer, I think, is obvious: not very closely at all. In fact, it seems a good deal closer to the Cartesian tradition than to Quine. For, as we saw, the difference that matters between Quine’s epistemological program and the traditional program is the former’s total renouncement of the latter’s normativity, its rejection of epistemology as a normative inquiry. The talk of “replacing” epistemology with psychology is irrelevant and at best misleading, though it could give us a momentary relief from a sense of deprivation. When one abandons justification and other valuational concepts, one abandons the entire framework of normative epistemology. What remains is a descriptive empirical theory of human cognition which, if Quine has his way, will be entirely devoid of the notion of justification or any other evaluative concept.

As I take it, this is not what most advocates of epistemological naturalism are aiming at. By and large they are not Quinean eliminativists in regard to justification, and justification in its full-fledged normative sense continues to play a central role in their epistemological reflections. Where they differ from their nonnaturalist adversaries is the specific way in which criteria of justification are to be formulated. Naturalists and non-naturalists (“apsychologists”) can agree that these criteria must be stated in descriptive terms—that is, without the use of epistemic or any other kind of normative terms. According to Kitcher, an apsychologistic theory of justification would state them primarily in terms of logical properties and relations holding for propositional contents of beliefs, whereas the psychologistic approach advocates the exclusive use of causal properties and relations holding for beliefs as events or states. Many traditional epistemologists may prefer criteria that confer upon a cognizer a position of special privilege and responsibility with regard to the epistemic status of his beliefs, whereas most self-avowed naturalists prefer “objective” or “externalist” criteria with no such special privileges for the cognizer. But these differences are among those that arise within the familiar normative framework, and are consistent with the exclusion of normative terms in the statement of the criteria of justification.

Normative ethics can serve as a useful model here. To claim that basic ethical terms, like “good” and “right”, are definable on the basis of descriptive or naturalistic terms is one thing; to insist that it is the business of normative ethics to provide conditions or criteria for “good” and “right” in descriptive or naturalistic terms is another. One may properly reject the former, the so-called “ethical naturalism”, as many moral philosophers have done, and hold the latter; there is no obvious inconsistency here. G. E. Moore is a philosopher who did just that. As is well known, he was a powerful critic of ethical naturalism, holding that goodness is a “simple” and “nonnatural” property. At the same time, he held that a thing’s being good “follows” from its possessing certain naturalistic properties. He wrote:33

I should never have thought of suggesting that goodness was ‘non-natural’, unless I had supposed that it was ‘derivative’ in the sense that, whenever a thing is good (in the sense in question) its goodness ... ‘depends on the presence of certain non-ethical characteristics’ possessed by the thing in question: I have always supposed that it did so ‘depend’, in the sense that, if a thing is good (in my sense), then that it is so follows from the fact that it possesses certain natural intrinsic properties ...

It makes sense to think of these “natural intrinsic properties” from which a thing’s being good is thought to follow as constituting naturalistic criteria of goodness, or at least pointing to the existence of such criteria. One can reject ethical naturalism, the doctrine that ethical concepts are definitionally eliminable in favor of naturalistic terms, and at the same time hold that ethical properties, or the ascription of ethical terms, must be governed by naturalistic criteria. It is dear, then, that we are here using “naturalism” ambiguously in “epistemological naturalism” and “ethical naturalism". In our present usage, epistemological naturalism does not include (nor does it necessarily exclude) the claim that epistemic terms are definitionally reducible to naturalistic terms. (Quine’s naturalism is eliminative, though it is not a definitionel eliminativism.)

If, therefore, we locate the split between Quine and traditional epistemology at the descriptive vs. normative divide, then currently influential naturalism in epistemology is not likely to fall on Quine’s
side. On this descriptive vs. normative issue, one can side with Quine in one of two ways: first, one rejects, with Quine, the entire justification-based epistemological program; or second, like ethical naturalists but unlike Quine, one believes that epistemic concepts are naturalistically definable. I doubt that very many epistemological naturalists will embrace either of these alternatives.

7. EPISTEMIC SUPERVENIENCE—OR WHY NORMATIVE EPISTEMOLOGY IS POSSIBLE

But why should we think that there must be naturalistic criteria of justified belief and other terms of epistemic appraisal? If we take the discovery and systematization of such criteria to be the central task of normative epistemology, is there any reason to think that this task can be fruitfully pursued, that normative epistemology is a possible field of inquiry? Quine’s point is that it is not. We have already noted the limitation of Quine’s negative arguments in “Epistemology Naturalized”, but is there a positive reason for thinking that normative epistemology is a viable program? One could consider a similar question about the possibility of normative ethics.

I think there is a short and plausible initial answer, although a detailed defense of it would involve complex general issues about norms and values. The short answer is this: we believe in the supervenience of epistemic properties on naturalistic ones, and more generally, in the supervenience of all valuational and normative properties on naturalistic conditions. This comes out in various ways. We think, with R. M. Hare, that if two persons or acts coincide in all descriptive or naturalistic details, they cannot differ in respect of being good or right, or any other valuational aspects. We also think that if something is “good”—a “good car”, “good drop shot”, “good argument”—then that must be so “in virtue of” its being a “certain way”, that is, its having certain “factual properties”. Being a good car, say, cannot be a brute and ultimate fact: a car is good because it has a certain contextually indicated set of properties having to do with performance, reliability, comfort, styling, economy, etc. The same goes for justified belief: if a belief is justified, that must be so because it has certain factual, nonepistemic properties, such as perhaps that it is “indubitable”, that it is appropriately caused by perceptual experience, or whatever. That it is a justified belief cannot be a brute fundamental fact unrelated to the kind of belief it is. There must be a reason for it, and this reason must be grounded in the factual descriptive properties of that particular belief. Something like this, I think, is what we believe.

Two important themes underlie these convictions: first, values, though perhaps not reducible to facts, must be “consistent” with them in that objects that are indiscernible in regard to fact must be indiscernible in regard to value; second, there must be nonvaluational “reasons” or “grounds” for the attribution of values, and these “reasons” or “grounds” must be generalizable—that is, they are covered by rules or norms. These two ideas correspond to “weak supervenience” and “strong supervenience” that I have discussed elsewhere. Belief in the supervenience of value upon fact, arguably, is fundamental to the very concepts of value and valuation. Any valuational concept, to be significant, must be governed by a set of criteria, and these criteria must ultimately rest on factual characteristics and relationships of objects and events being evaluated. There is something deeply incoherent about the idea of an infinitely descending series of valuational concepts, each depending on the one below it as its criterion of application.

It seems to me, therefore, that epistemological supervenience is what underlies our belief in the possibility of normative epistemology, and that we do not need new inspirations from the sciences to acknowledge the existence of naturalistic criteria for epistemic and other valuational concepts. The case of normative ethics is entirely parallel: belief in the possibility of normative ethics is rooted in the belief that moral properties and relations are supervenient upon non-moral ones. Unless we are prepared to disown normative ethics as a viable philosophical inquiry, we had better recognize normative epistemology as one, too. We should note, too, that epistemology is likely to parallel normative ethics in regard to the degree to which scientific results are relevant or useful to its development. Saying this of course leaves large room for disagreement concerning how relevant and useful, if at all, empirical psychology of human motivation and action can be to the development and confirmation of normative ethical theories. In any event, once the normativity of epistemology is clearly taken note of, it is no surprise that epistemology and normative ethics share the same metaphilosophical fate. Naturalized epistemology makes no more, and no less, sense than
naturalized normative ethics.42

NOTES

1. In making these remarks I am only repeating the familiar textbook history of philosophy; however, what our textbooks say about the history of a philosophical concept has much to do with our understanding of that concept.

2. Alvin Goldman explicitly states this requirement as a desideratum of his own analysis of justified belief in "What Is justified Belief?", in George S. Pappas (ed.), justification and Knowledge (Dordrecht: Reidel, 1979), p. 1. (P. 159 in this volume.), Roderick M. Chisholm's definition of "being evident" in his Theory of Knowledge, 2nd ed. (Englewood Cliffs, N.J.: Prentice Hall, 1977) does not satisfy this requirement as it rests ultimately on an unanalyzed epistemic concept of one belief being more reasonable than another. What does the real "criteriological" work for Chisholm is his "principles of evidence". See especially (A) on p. 73 of Theory of Knowledge [P. 116 in this volume.], which can usefully be regarded as an attempt to provide nonnormative, descriptive conditions for certain types of justified beliefs.

3. The basic idea of this stronger requirement seems implicit in Roderick Firth's notion of "warrant-increasing property" in his "Coherence, Certainty, and Epistemic Priority", Journal of Philosophy 61 (1964): 545-57. It seems that William P. Alston has something similar in mind when he says, "... like any evaluative property, epistemic justification is a supervenient property, the application of which is based on more fundamental properties" (at this point Alston refers to Firth's paper cited above), in "Two Types of Foundationalism", Journal of Philosophy 73 (1976): 165-85 (the quoted remark occurs on p. 170). Although Alston doesn't further explain what he means by "more fundamental properties", the context makes it plausible to suppose that he has in mind nonnormative, descriptive properties. See Section 7 below for further discussion.

4. See Chisholm,ibid., p. 14. Here Chisholm refers to a "person's responsibility or duty qua intellectual being".

5. This term was used by A.J. Ayer to characterize the difference between lucky guessing and knowing; see The Problem of Knowledge (New York & London: Penguin Books, 1956), p. 33.


7. See Rudolf Carnap, "Testability and Meaning", Philosophy of Science 3 (1936), and 4 (1937). We should also note the presence of a strong coherentist streak among some positivists; see, e.g., Carl G. Hempel, "On the


9. Or confirmational relations, given the Positivists' verificationist theory of meaning.


12. Ibid., p. 78.


14. Elliott Sober makes a similar point: "And on the question of whether the failure of a foundationalist programme shows that questions of justification cannot be answered, it is worth nothing that Quine's advice "Since Carnap's foundationalism failed, why not settle for psychology" carries weight only to the degree that Carnapian epistemology exhausts the possibilities of epistemology", in "Psychologism", Journal of Theory of Social Behaviour 8 (1978): 165-191.

15 See Chisholm, Theory of Knowledge. 2nd ed., ch. 4.

16 "If we are seeking only the causal mechanism of our knowledge of the external world, and not a justification of that knowledge in terms prior to science ...", Quine, "Grades of Theoreticity", in L. Foster and J. W. Swanson (eds.), Experience and Theory (Amherst: University of Massachusetts Press, 1970), p. 2.

17. Ibid., p. 75. Emphasis added.

18. Ibid., p. 78. Emphasis added.


20. But aren't there those who advocate a "causal theory" of evidence or justification? I want to make two brief points about this. First, the
nomological or causal input/output relations are not in themselves evidential relations, whether these latter are understood causally or otherwise. Second, a casual theory of evidence attempts to state criteria for "e is evidence for h" in causal terms; even if this is successful, it does not necessarily give us a casual "definition" or "reduction" of the concept of evidence. For more details see section 6 below.

21. I am not saying that Quine is under any illusion on this point. My remarks are directed rather at those who endorse Quine without, it seems, a clear appreciation of what is involved.


23. Robert Audi suggested this as a possible objection.

24. For some considerations tending to show that these correlations cannot be lawlike see my "Psychophysical Laws", in Ernest LePore and Brian McLaughlin (eds.), Actions and Events: Perspectives on the Philosophy of Donald Davidson (Oxford: Blackwell, 1985).

25. For a more sympathetic account of Quine than mine, see Hilary Kornblith’s introductory essay, "What Is Naturalistic Epistemology?", in Kornblith (ed.), Naturalizing Epistemology.


28. Ibid.

29. Ibid., p. 13. I should note that Kitcher considers the apsychologistic approach to be an aberration of the twentieth century epistemology, as represented by philosophers like Russell, Moore, C. I. Lewis, and Chisholm, rather than an historical characteristic of the Cartesian tradition. In "The Psychological Turn", Australasian Journal of Philosophy 60 (1982): 238-253, Hilary Kornblith gives an analogous characterization of the two approaches to justification; he associates "justification-conferring processes" with the psychologistic approach and "epistemic rules" with the apsychologistic approach.

30. See Goldman, "What Is Justified Belief?" [Pp. 89-104 in this volume.]


32. The aptness of this characterization of the "apsychologistic" approach for philosophers like Russell, Chisholm, Keith Lehrer, John Pollock, etc. can be debated. Also, there is the issue of "internalism" vs. "externalism" concerning justification, which I believe must be distinguished from the psychologistic vs. apsychologistic division.


34. Richard Rorty’s claim, which plays a prominent role in his arguments against traditional epistemology in Philosophy and the Mirror of Nature, that Locke and other modern epistemologists conflated the normative concept of justification with causal-mechanical concepts is itself based, I believe, on a conflation of just the kind I am describing here. See Rorty, ibid., pp. 139ff. Again, the critical conflation consists in not seeing that the view, which I believe is correct, that epistemic justification, like any other normative concept, must have factual, naturalistic criteria, is entirely consistent with the rejection of the doctrine, which I think is incorrect, that justification itself is, or is reducible to, a naturalistic-nonnormative concept.


38. Perhaps one could avoid this kind of criteriological regress by embracing directly apprehended valuational properties (as in ethical intuitionism) on the basis of which criteria for other valuational properties could be formulated. The denial of the supervenience of valuational concepts on factual characteristics, however, would sever the essential connection between value and fact on which, it seems, the whole point of our valuational activities depends. In the absence of such supervenience, the very notion of valuation would lose its significance and relevance. The elaboration of these points, however, would have to wait for another occasion; but see Van Cleve's paper cited in the preceding note for more details.

39. Quine will not disagree with this: he will "naturalize" them both. For his views on values see "The Nature of Moral Values" in Alvin I. Goldman and Jaegwon Kim (eds.), Values and Morals (Dordrecht: Reidel, 1978). For a discussion of the relationship between epistemic and ethical concepts see...
Roderick Firth, "Are Epistemic Concepts Reducible to Ethical Concepts?" in the same volume.

40. For discussion of this and related issues see Goldman, Epistemology and Cognition.


42. An early version of this paper was read at a meeting of the Korean Society for Analytic Philosophy in 1984 in Seoul. An expanded version was presented at a symposium at the Western Division meetings of the American Philosophical Association in April, 1985, and at the epistemology conference at Brown University in honor of Roderick Chisholm in 1986. I am grateful to Richard Foley and Robert Audi who presented helpful comments at the APA session and the Chisholm Conference respectively. I am also indebted to Terence Horgan and Robert Meyers for helpful comments and suggestions.

REFERENCES


CARNAP, RUDOLF, "Testability and Meaning", Philosophy of Science 3 (1936), and 4 (1937).


QUINE, W. V., *The Roots of Reference* (La Salle, Ill.: Open Court, 1973);
Quine, W. V., "The Nature of Natural Knowledge" in Samuel Guttenplan (ed.),

QUINE, W. V., "The Nature of Moral Values" in Alvin I. Goldman and

RORTY, RICHARD, *Philosophy and the Mirror of Nature* (Princeton:

SOBER, ELLIOTT, “Psychologism”, *Journal of Theory of Social Behavior* 8


VAN CLEVE, JAMES, “Epistemic Supervenience and the Circle of Belief”,