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Vol:

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Patron: Shieber, Joseph

Author:

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Richard Woodfield

POLANYI, Michael (1891-1976)

adsorption of gases by solids in 1913-14, and on thermodynamics and two papers on the published three papers on the chemistry of body fluids while still in his third year of magazine, West, and a political journal, Twentieth Century. Polanyi did not neglect sciphysical chemistry, and published five papers subject in 1913. At the end of the summer, of Thermodynamics and extreme pressures. researched the relation between the Third Law of Technology in Germany. There, Polanyi Professor Georg Bredig at the Karlsruhe College doing research in physical chemistry with entific research. Between 1910 and 1911 he Karlstuhe, where he engaged in research in degree in 1913. Polanyi then returned to to complete his medical studies, and received his Polanyi returned to the university in Budapest effort; and Polanyi published his paper on the Einstein, who was quite impressed with the medical school. Polanyi spent the summer of which participated in publishing a literary Budapest. At the university, he and his brother February 1976. At the age of seventeen Polanyi March 1891 and died in Northampton on 22 Michael Polanyi was born in Budapest on 11 Bredig sent the results of Polanyi's research to 1912, before completing his medical degree, gressive student group called the Galilei Circle, industrial revolution, founded a radical-pro-Karl, the future economist and historian of the began his medical studies at the University of

When World War I broke out in August 1914, he joined the Austro-Hungarian Army as a medical officer. Polanyi's military service ended when he contracted diphtheria in 1915. During his recuperation he wrote a dissertation in physical chemistry based upon his Karlsruhe research. This work, 'Adsorption of Gases by a Solid Non-Volatile Adsorbent', was accepted by the University of Budapest, and Polanyi

quished his position at the Institute, and to leave Germany. He resigned his life mem the University of Manchester. accepted the Chair of Physical Chemistry at bership of the Kaiser Wilhelm Society, relin-Hitler came to power in 1933 Polanyi decided from the University of Berlin in 1926. When the Sciences and received the title of professor Kaiser Wilhelm Society for the Advancement of Polanyi was appointed a life member of the Electrochemistry. Based on his work there, Haber Institute for Physical Chemistry and Head of one of the departments of the Fritz Chemistry in Berlin, and in 1923 he became the position at the Kaiser Wilhelm Institute of Fibre end of 1919. In 1920 Polanyi took up a leave Budapest for Karlsruhe some time at the Rutherford in Manchester. His disaffection for associate of Bredig in Karlsruhe and of Bela Kun's communist regime induced him to istry professor George von Hevesy, a former the University of Budapest as assistant to chemreceived a doctorate in chemistry in 1917. After the war, Polanyi took up a position at

In England, Polanyi continued to run a research laboratory and to publish significant scientific papers until the mid 1940s. Polanyi became a British citizen in 1939, and was elected a fellow of the Royal Society in 1944. He published his 218th, and final, scientific paper in 1949.

In the 1930s Polanyi's interests turned increasingly to politics, economics and philosophy. Polanyi's experiences in Kun's Hungary and Hitler's Germany had convinced him that freedom of thought and expression, of which freedom of scientific research is simply a special

Freedom in Science. Baker, a biologist at Oxford, the Society for in 1941 to co-found, with Professor John R. among British Marxist intellectuals advocata collection of essays criticizing a movement ing the social planning of scientific research. forces of social determinism in England, and in 1940 he published The Contempt of Freedom, Polanyi's opposition to this movement led him communists. He was a tireless critic of the for the truth by both the Nazis and the Soviet ity of truth that promises the hope of justice. In truth will be heard, and that it is the possibil it is this freedom that ultimately ensures that the case, is a social necessity. Polanyi believed tha lished essays criticizing the callous disregard keeping with these convictions, Polanyi pub-

Beginning in 1943, Polanyi began to synthesize these interests into a research project concerning the interrelationship between scientific research and the broader social fabric of which it is a part. He presented this work as the Riddell Memorial Lectures at Durham in 1945, and published it, as *Science*, *Faith and Society*, in 1946. In it, Polanyi employed findings of Gestalt psychology and case studies from the history of science and mathematics to illuminate the way in which scientific investigation results from a delicate interaction between the free thought of individual researchers and the scientific consensus within which those researchers function.

Polanyi's new dedication to the development of a philosophical system capable of explaining scientific discovery led him to exchange his Chair in Chemistry at Manchester for a Chair in 'Social Studies', created specifically for him, in 1948. On the strength of his growing reputation, the Committee on Social Thought at the University of Chicago prevailed upon the university administration to offer Polanyi a chair in 1950. However, Polanyi was unable to take up the chair because he was denied a visa to enter the USA. A 1942 lecture that Polanyi gave to an organization he did not know to be communist was sufficient grounds for US officials to find him to be 'politically unreliable'

according to the recently passed McCarran Act. Thus, despite the recognition conferred by the invitation to give the Gifford Lectures at Aberdeen in 1951–2, and although he benefited greatly from the collaboration of the philosopher Marjorie Grene, Polanyl was forced to conduct the research for his most significant philosophical work, Personal Knowledge: Towards a Post-Critical Philosophy, based on his Gifford Lectures, without the aid of a vibrant community of social scientists at the University of Chicago who were already syntpathetic to his ideas.

died in February 1976. Harry Prosch and published in 1975. Polanyi other material, formed the basis for Polanyi's Meaning, completed with the aid of Professor sophical system. These lectures, along with of art, religion and myth to illustrate his philoand increasingly used analogies from the realms extended his philosophy of tacit integration, Texas and Chicago. In those lectures he lectures on 'Meaning' at the Universities of published in revised form in 1966 as The Tacit Dimension. In 1969 Polanyi gave two series of he gave the Terry Lectures at Yale University, ments there in the years until his death. In 1962 USA, Polanyi held a number of visiting appointdue to the greater interest in his work in the lowship at Merton College, Oxford. However, left Manchester to take up a senior research felwhich Polanyi extended to the human sciences Personal Knowledge. In the same yeat, Polanyi the new philosophy he had expounded in published in 1959 as The Study of Man, in Memorial Lecturer at Keele: The lectures were Polanyi was invited to be the first Lindsay After the publication of Personal Knowledge

Polanyi's central philosophical work, Personal Knowledge, published in 1958, received largely unfavourable reviews from philosophers. Even those reviewers more inclined to view the work positively treated it as a work in the sociology of science. This was in no small measure due to the difficulty of Polanyi's presentation. Polanyi wrote in a dense continental style, employing conceptual frame-

works from Gestalt psychology and marshalling data from psychological research as evidence for his theses. Furthermore, Polanyi eschewed the dominant analytical emphasis on clarity of presentation and providing explicit proofs of theses. Instead, Polanyi employed a number of neologisms and relied frequently on analogical argument based on examples from a wide range of fields, including biology, language, art and religion.

Despite these perceived weaknesses in presentation, Polanyi's work offers much of value to the careful reader, and his contributions were recognized by, among others, Thomas Kuhn and the sociologist of science Robert K. Merton. Polanyi's criticisms of the thendominant positivistic conception of science are often damning, and his own positive conception of knowledge prefigures current interests in both naturalized epistemology and phenomenology. Some of the central issues of the book include the critique of objectivism, the introduction of the concept of personal knowledge, and a discussion of the role of tradition in the 'republic of science'.

According to Polanyi, objectivism involves the following four theses: (1) knowledge is limited to what is physically observable and measurable; (2) thus, scientific theories, in that they go beyond observables, do not contain truths; rather, they are 'simple', 'symmetrical', 'economical' or 'fruitful'; (3) knowledge is detached, and thus incompatible with emotional and personal involvement on the part of the knower; and (4) reality is reducible to the objects studied by chemistry and physics.

Polanyi seeks to supplant the objectivist conception of knowledge with his own view of knowledge as personal. It is crucial to note that Polanyi's notion of personal knowledge is no more a subjectivist one than it is an objectivist one. Polanyi rejects the charge of subjectivism for a number of reasons, among them his notion of personal knowledge as fallibilist, his idea that knowledge establishes contact with reality in part through its anticipation of as yet unknown true implications, and his concep-

tion of science as attempting to discover the rational structure intrinsic to reality. This last point also suggests how Polanyi wished to link his epistemology and his ontology. For Polanyi, the structure of knowing is mirrored in the structure of what is known: 'what is comprehended has the same structure as the act which comprehends it' (*The Tacit Dimension*, p. 55).

environment through tacit knowing Polanyi a part of us - in Polanyi's terminology, we may become aware of the features of our enviof the cavity that one is exploring. In being is subsidiarily aware of the metal probe in one's terms tacit integration. these features as well. This interiorization of the ronment to such an extent that we indwell indwell them. Indeed, by indwelling tools, we used by us, tools, like the metal probe, become use, one is in fact focally aware of the attributes hand, but, to the extent that one is skilled in its ment, a metal probe, to explore a cavity. One example of tacit knowing is the use of an instruon which the subsidiaries are brought to bear' attend from one or more subsidiaries to a focus formed by a person (A) ... in tacit knowing we on a focus (C) by virtue of an integration per-This 'consists in subsidiary things (B) bearing notion of logical triad, in terms of a tacit triad. (Knowing and Being, 1969, pp. 181–207). An tacit knowing, borrowing from C.S. Peirce's development, Polanyi explicated the notion of edge is irreducibly tacit. In its most mature personal nature of knowledge is that knowl One reason Polanyi gives for the irreducibly

Tacit knowing is ineliminable. Any attempt to train one's focal awareness onto a phenomenon of which one is normally merely subsidiarily aware will result in a failure to continue to perform adequately. Thus, a skilled musician who trains her attention on the movements of her hands will become confused and have to stop. Or, as Polanyi notes, subjects wearing inverting eyeglasses may learn to stop attending to their visual images, instead attending from them to the world, and thus cope with the world around them. However, as soon as they refocus their awareness on their visual

images themselves, they will again fail to cope. Polanyi recognizes this phenomenon of tacit knowing everywhere: in perception, in linguistic communication, in face recognition, in skilful action. Further, since the actions one takes in tacit knowing are not themselves reducible to the following of an explicit set of rules, the phenomenon of tacit knowing provides further evidence for the irreducibility of the role of the personal in knowledge.

in the dissemination and acceptance of new a central persuasive role, inducing the scientists a radical new theory, once performed, irrethat sympathy and trust between scientists play endeavour, and of the radical theoretical result, colleagues to appreciate as well the value of the versible. Finally, the intellectual passions play to a certain vision of reality, and thus guiding appreciation of the scientific value of a question for themselves. Thus, Polanyi shows the role appreciation of intellectual beauty also has a thinking and to commit to her own vision. The the scientist to abandon received ways of intuition. It is this function that also convinces the way to a solution, to the crucial spark of interest of a particular line of investigation value of a particular result or the intrinsic heuristic function, making the intuitive leap to They have a heuristic function, linking the leading to one's judgements of the scientific personal, are central to scientific knowledge. further evidence for the ineliminability of the reason as well that the intellectual passions, commitment, or 'fiduciary act'. It is for this the result of a person's action, an intellectual tive, truth. This linkage itself, however, is also a linkage of the personal, belief, with the objecwhich Polanyi sees as involving two 'poles', is is everywhere on knowledge. Its very structure, These passions play a crucial selective role, Indeed, for Polanyi, the stamp of the personal

This last element of the role of the intellectual passions in the advancement of science is particularly significant in the relationship between master and novice. In learning from a master, according to Polanyi, the novice necessarily

surrenders himself to his teacher, for, in acquiring the standards by which to select lines of inquiry and to seek lintovative theories, the novice must simply adopt those standards inculcated in him by his teacher. To do otherwise, to subject the teacher's standards themselves to critical inquiry on the basis of the novice's cutrent standards, would be impossible for two reasons, Polanyi hotes. First, the novice cannot judge the teacher's superior standards on the basis of the student's own current ones. Second, we cannot subject standards themselves to the same critique to which, by means of those

standards, we subject other questions. Rather,

the adoption of standards of judgement is the

forced to bow to an externally imposed will dedicating themselves to its aims and not the goal of truth. It is a 'society of explorers', and of the respect for scientific standards and tradition, both of the art of scientific research theories. Furthermore, it is a society based on upon its subjects a particular set of beliefs or opposed to a Specific Authority that imposes concerning the current state of the art, as existing standards and the general consensus and positions or the refereeing of papers society. Indeed, for Polanyi, it is clear that the society, by the authority governing that Authority dedicated only to maintaining However, this authority is a General rather, it is like being inducted into a guild, or reasoned decision on the part of the hovice; for example in the awarding of degrees, grants result of a reaction of the intellectual passions. republic of science' is governed by authority, investigation is not itself the result of a Thus, adoption of the standards of scientific

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Joseph H. Shieber

most notably by Stanley Cavell, who argues

phy, Pole's interpretation has been criticized,

sequent work on Wittgenstein's later philoso-

Wittgenstein's understanding of language for the practice of philosophy. In the light of sub-

that Pole was not sensitive enough to Wittgenstein's distinctive philosophical style,

POLE, David Lawrence Shmarya (1923-77)

David Pole was born on 6 December 1923 and died in London on 29 April 1977. He took a BA in modern history from Oxford (1949) and another in philosophy from London in 1953. He took his PhD in philosophy from University College London (1956), studying under A.J. AYER. He was appointed first assistant lecturer (1955), then lecturer (1958) in philosophy at King's College London and remained there until 1977.

tled, generally, with the implications of may be important to following or not followdiscounted by Wittgenstein, and he is disgruning that course, yet Pole claims this would be fitness in relation to some course of reasoning factors play in language' (Later Philosophy of the part that intentional and psychological Wittgenstein 'presents in terms far too negative language, arguing, for example, that objections to Wittgenstein's approach to method, language-games and the private ticular to Wittgenstein's thought on linguistic Wittgenstein, p. 90). A feeling of strangeness or language argument. He raises a number of the Foundations of Mathematics, and in par-Philosophical Investigations and Remarks on introduces readers to central topics in the philosopher's later writings. In the book Pole book, The Later Philosophy of Wittgenstein for his work on Wittgenstein and aesthetics. His ancient philosophy. He is probably best known WITTGENSTEIN, the concept of rationality, and sophical areas, including aesthetics, ethics (1958), was one of the first studies of the Pole was interested in a wide range of philo-

and therefore misconstrues many of his ideas. Pole's Conditions of Rational Inquiry: A Study in the Philosophy of Value (1961) brings together his interests in ethics and rationality. The book is an examination of the place of evaluation in rational inquiry. It includes an extensive treatment of the concepts of decision and inquiry, and of the process of inquiry in relation to values. His discussion includes an interesting analysis of the development of judgement as such and the nature of moral judgement.

Before his death Pole selected a set of his essays and reviews that he would have liked reprinted. The papers and reviews in aesthetics

acteristic of Pole's writing. recently. These essays are refreshing to read received attention in aesthetics only very for the lively, clearly argued style that was charinteresting discussion of disgust, a topic that has writings in aesthetics is clearly evident in his and expression. The originality of Pole's bution to understanding the concepts of form aestheticians, especially for its original contriinterpretation. The collection was praised by ment, art and morality, representation and expression, literary criticism, aesthetic judgeessays range across a variety of topics, includ ing the problems of aesthetic experience, form, in the first half of the twentieth century. The to the peripheral position it had been assigned ity of aesthetics within philosophy, as opposed book he declares his firm belief in the central. the arts of literature and architecture. In the knowledge of aesthetics and the arts, especially (1983). This third book reflects Pole's wide lection entitled, Aesthetics, Form and Emotion years, were published posthumously in a col from this selection, spanning roughly twenty

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Emily Brady

POMPA, Leonardo (1933-)

and of the British Journal for the History Studies and the History of European I Philosophy, the Aristotelian Society and Great Britain; of the editorial board fo member of the Council of the Hegel Socie University. Academic Standing Committee at Edinb journals New Vico Studies, Collingu when he became emeritus professor. He which he held until his retirement in Philosophy at Birmingham University, a academic appointment was as a lectu and an MA and PhD in philosophy. His Edinburgh, a post which he held from 19 Edinburgh, where he gained an MA in h February 1933. He was educate Leon Pompa was born in Edinburgh 1977. He was then appointed as Profess Bournemouth School and at the Univers

speaking world, and, particularly with translation of Vico's New Science, he has ceeded admirably in his task. remedy the neglect of Vico in the Eng tinguished philosophical career has bee be untrue. Much of Pompa's work in his scholastic', but his prediction that 'de states that Vico's 'style is often obscure Philosophy (ed. Paul Edwards, vol. 8, 19 in his article on Vico in The Encycloped of the obscurity of his style. Patrick GARDI of history and the social sciences, but bee that he will ever be widely read' has prove [Vico's] undoubted genius, it seems uni nothing of importance to add to the philost reason for this neglect is not because Vico other countries in the Western world: until relatively recently been largely ignor aroused by his doctrines in his native Italy A Study of the 'New Science', Pompa that Vico, apart from the constant int In the Preface to one of his early works

In his many commentaries Pompa pres Vico as having denied that there is a 'fit transcendental, transcultural human natuu essence. Instead, Vico stressed that hui