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ON CERTAIN FRAGMENTS OF THE PRE-SOCRATICS :

CRITICAL NOTES AND ELUCIDATIONS.

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THE collection of notes here presented owes its origin to a request for suggestions from Professor Hermann Diels when he was engaged in revising Die Fragmente der Vorsokratiker for the third edition, since published (1912). In response to his courteous invitation I sent, together with a list of errors noted in the second edition, a number of proposals for the emendation of texts and the interpretation of doubtful passages. Had I then had the requisite leisure it would have been my duty to explain and defend my suggestions; since that was impossible, the notes then submitted were in effect mere marginalia, to notice which as fully as Professor Diels has done required uncommon courtesy. To be permitted to contribute even in a small measure to so excellent an instrument of scholarship is an honor not lightly to be esteemed. The renewal of certain suggestions previously made but not accepted by Professor Diels is due solely to the desire to enable him and other scholars to judge of their merits when the case for them is properly presented; others, in the correctness of which I still have confidence, are here left unnoticed because, as referred to in the third edition, they are already recorded and bear on their face such credentials as are necessary for a proper estimate of their claims. But I here present for the first time a considerable number of proposed readings and interpretations, the importance of which, if approved by the judgment of competent scholars, must be at once apparent to the historian of Greek thought. If it were customary to dedicate such studies, I should dedicate these notes to my honored teacher and friend, Professor Diels, to whom I owe more for instruction and inspiration during a quarter of a century than I can hope to repay. In the following pages reference is made to chapter, page, and line

of his second edition (V^2) , because the pages of this edition are noted also in the margin of the third (V^3) .

c. 2. Anaximander.

 ∇^2 12, 28. Plin. N. H. 2. 31. Obliquitatem eius [sc. zodiaci] intellexisse, hoc est rerum foris aperuisse, Anaximander Milesius traditur primus.

Perhaps the full significance of the clause 'hoc...aperuisse,' whatever the source of the sentiment, is hardly appreciated. The Delphin edition refers to Plin. N. H. 35. 36 'artis foris apertas ab Apollodoro Zeuxis intravit'; but that is not a real parallel. For such we turn rather to Lucret. 1, 66 sq.

> Graius homo [sc. Epicurus] eo magis acrem irritat animi virtutem, effringere ut arta naturae primus portarum claustra cupiret. ergo vivida vis animi pervicit, et extra processit longe flammantia moenia mundi atque omne immensum peragravit mente animoque, unde refert nobis victor quid possit oriri quid nequeat, finita potestas denique cuique quanam sit ratione atque alte terminus haerens.

The same conception recurs Lucret. 3, 14 sq.

nam simul ac ratio tua coepit vociferari naturam rerum, divina mente coorta, diffugiunt animi terrores, moenia mundi discedunt, totum video per inane geri res.

For these passages I would refer the reader to my essay, Die Bekehrung im klassischen Altertum, mit besonderer Berücksichtigung des Lucretius, Zeitschrift für Religionspsychologie, Bd. III, Heft 11, p. 13 sq. Heinze's parallels to Lucret. 3, 14 sq. ought to have made clear to him that there is here an allusion to the ecstatic $\epsilon \pi \sigma \pi \tau \epsilon i a$ of the mysteries evoked, as I pointed out, by the pronouncement of the $\epsilon \rho \delta s \lambda \delta \gamma os$ (ratio...divina mente coorta), coming as the climax of the rites of initiation, when the mystae catch a vision and seize the significance of the world ($\epsilon \pi \sigma \pi \tau \epsilon \delta \epsilon \kappa a \pi \epsilon \rho \iota v o \epsilon \bar{v} \tau \eta v \tau \epsilon \phi \delta \sigma \iota v \kappa a t \tau a \pi \rho a \gamma \mu a \tau a)$, according to Clem. Alex. Strom. 5. 11. Müller on Lucil. 30, 1 compared Lucret. 1, 66 sq., and the editors of Lucretius have

copied the reference, although the resemblance is altogether superficial and without significance. Recently Professor Reid, Lucretiana, Harvard Studies in Class. Philology, Vol. 22, p. 2, has once more drawn attention to Sen. Dial. 8. 5. 6, Cogitatio nostra caeli munimenta perrumpit nec contenta est id, quod ostenditur, scire: illud, inquit, scrutor, quod ultra mundum iacet, utrumne profunda vastitas sit an et hoc ipsum terminis suis cludatur, etc. I doubt, however, the correctness of his statement that Seneca was here imitating Lucretius. It seems to me more probable that both authors are reproducing with some freedom the thought of an earlier, perhaps Stoic, writer, who may have been Posidonius. Be that as it may, the thought common to Lucretius, Seneca, and Pliny (and I may add, Bishop Dionysius, ap. Euseb. P. E. 14. 27. 8) is that a great revelation has come, rending as it were the curtain or outer confines of the world and permitting a glimpse into the utmost secrets of nature. Such a revelation, according to Pliny, ensued upon the discovery of the obliquity of the ecliptic; and a study of early Greek cosmology clearly demonstrates the capital importance attached to it. To some aspects of this question I drew attention in my article, The $\Delta i \nu \eta$ in Anaximenes and Anaximander, Class. Philol., Vol. 1, p. 279 sq. Very much more remains to be said, but I shall have to reserve the matter for a future occasion.

\mathbf{V}^2 13, 2. 'Αναξίμανδρος . . . ἀρχήν τε καὶ στοιχεῖον εἰρηκε τῶν ὅντων τὸ ἄπειρον.

For the meaning of $d\rho\chi\eta$ Diels refers in V³ to the preliminary statement in my $\Pi\epsilon\rho$ Φ $i\sigma\epsilon\omega$ s, Proceed. of Amer. Acad. of Arts and Sc., Vol. 45, p. 79, n. 3. The subject has now received a fuller treatment in my essay On Anaximander, Class. Philol., Vol. 8 (1912), p. 212 sq. To the statement there given, though much might be said by way of enlargement and confirmation, I think it unnecessary to add anything, except to say that the results of my investigations dovetail admirably into certain other observations recently made by different scholars. I refer among others to the views of Otto Gilbert as to the original meaning of the 'elements' set forth in his Griech. Religionsphilosophie, 1911, which reached me at the same time with the off-prints of my essay; and to Mr. Cornford's conception of Molpa as developed in From Religion to Philosophy, 1912. Unfortunately both these authors accept the Peripatetic tradition regarding the meaning of Anaximander's $\dot{a}\rho\chi\dot{\eta}$; consequently their observations remain fruitless when they proceed to interpret the early history of Greek philosophy.

PROCEEDINGS OF THE AMERICAN ACADEMY.

∇² 13, 7. διδόναι γ αρ αὐτὰ δίκην καὶ τίσιν ἀλλήλοις τῆς ἀδικίας κατὰ τὴν τοῦ χρόνου τάξιν.

In his note on this passage (V^3 15, 28) Diels repeats his former explanation, "άλλήλοις: dativus commodi: das Untergehende dem Überlebenden und dieses wieder untergehend dem künftig Entsteh-Vgl. Eur. Chrysipp. fr. 839, 13." This interpretation, which enden. is that now currently accepted, rests obviously on the assumption that the preceding sentence in Simplicius, $\xi \delta v \delta \delta \eta \gamma \epsilon v \epsilon \sigma i s \epsilon \sigma \tau i$ τοΐς οὖσι, καὶ τὴν φθορὰν εἰς ταῦτα γίνεσθαι κατὰ τὸ χρεών, preserves the authentic words of Anaximander and that, in consequence, it is individual things or objects $(\tau \dot{a} \ \ddot{o}\nu\tau a)$ that mutually exact and pay the penalty for injustice done to one another. On that view Diels's elaboration of the implications of $\dot{a}\lambda\lambda\eta\lambda$ ois is both obvious and necessary. I believe, however, that in my essay On Anaximander, p. 233 sq., I showed conclusively (1) that it is not individual objects but the contraries, hot and cold, that encroach on one another and suffer periodic punishment inflicted by each on the other (wherefore ἀλλήλοιs is here to be interpreted as a strict reciprocal and not as Diels proposes), and (2) that when this mutual $\kappa \delta \lambda \alpha \sigma \iota s$ is said to recur $\kappa \alpha \tau \dot{\alpha}$ την τοῦ χρόνου τάξιν, reference is had to the seasonal excess of the hot in summer and of the cold in winter. The strict limitations of space imposed upon my essay led to the exclusion of many things which I reluctantly omitted, and did not admit of a full statement of my views. I propose, therefore, here to add a few points which may serve to explain and confirm them. Zeller insists that for Anaximander one pair of contraries only, the hot and the cold, existed, at least as primarily proceeding from the $a\pi\epsilon\iota\rho\sigma\nu$; this would rule out the moist and the dry, which are mentioned with the first pair by Simplicius, as due to Aristotle. This may be true, but it is not necessarily so; for the Empedoclean and Hippocratic group of four contraries is too well attested, and if, as seems certain, Anaximander had in mind the seasonal changes it is hard to conceive of him as overlooking the differences in drought and moisture which Simplicius mentions with those of heat and cold. A passage strikingly illustrating and interpreting that of Simplicius is found in Philo, De Anim. Sacrif. Idon. II. 242 Mang. ή δè eis μέλη τοῦ ζώου διανομή δηλοῖ, ήτοι ώs ἕν τὰ πάντα ή ὅτι ἐξ ένός τε καί είς έν δπερ οί μέν κόρον καί χρησμοσύνην ἐκάλεσαν, οἱ δ' έκπύρωσιν καὶ διακόσμησιν · ἐκπύρωσιν μὲν κατὰ τὴν τοῦ θεοῦ δυναστείαν των ἄλλων ἐπικρατήσαντος, διακόσμησιν δὲ κατὰ τὴν τῶν τεττάρων στοιχείων ἰσονομίαν, ην ἀντιδιδόασιν ἀλλήλοις. Philo

is of course far from thinking of Anaximander and has in mind Heraclitus and the Stoics only; but we know that the conception of Heraclitus was older than the fifth century, being traceable to Alcmaeon, a contemporary of Anaximander. The isovoµía $\tau \hat{\omega} \nu$ δυνάµεων (Alcmaeon, fr. 4), as the condition of health, and the $\dot{\epsilon}\pi\iota\kappa\rho\dot{a}\tau\epsilon\iota a$ and $\pi\lambda\epsilon_{\nu}\epsilon_{\ell}$ of the several constituents of the human body as the cause of disease, are fixed factors of practically the whole medical tradition of Greece. We may therefore confidently affirm that the isovouía $< \tau \hat{\omega} \nu$ στοιχείων or rather τ $\hat{\omega} \nu$ έναντιοτήτ $\omega \nu >$ ήν άντιδιδόασιν άλλήλοις, which Philo attributes to Heraclitus and the Stoics, applies with equal propriety to Anaximander, and explains his meaning. These different factors, correlated also with the seasonal changes, are mentioned by Plato, Legg. 906 C, φαμέν δ' είναί που τὸ νῦν ὀνομαζόμενον ἁμάρτημα, τήν πλεονεξίαν, έν μέν σαρκίνοις σώμασιν νόσημα καλούμενον, έν δέ ώραις έτων και ένιαυτοις λοιμόν, έν δε πόλεσιν και πολιτείαις τουτο αυτό, δήματι μετεσχηματισμένον, ἀδικίαν. The connection, here hardly more than suggested, is clearly noted by Plato, Symp. 188 A, $\epsilon \pi \epsilon i$ $\kappa a i \dot{\eta} \tau \hat{\omega} \nu$ ώρων τοῦ ἐνιαυτοῦ σύστασις μεστή ἐστιν ἀμφοτέρων τούτων, καὶ ἐπειδὰν μέν πρός άλληλα τοῦ κοσμίου τύχη ἔρωτος ἃ νυνδή ἐγὼ ἕλεγον, τά τε θερμὰ καί τὰ ψυχρὰ καί ξηρὰ καὶ ὑγρά, καὶ ἁρμονίαν καὶ κρᾶσιν λάβη σώφρονα, ήκει φέροντα εὐετηρίαν τε καὶ ὑγίειαν ἀνθρώποις καὶ τοῖς ἄλλοις ζώοις τε καὶ φυτοῖς, καὶ οὐδὲν ἡδίκησεν · ὅταν δὲ ὁ μετὰ τῆς ὕβρεως Ἐρως ἐγκρατέστερος περί τὰς τοῦ ἐνιαυτοῦ ὥρας γένηται, διέφθειρέν τε πολλά καί ήδίκησεν. On this passage cp. Hirzel, Themis, Dike und Verwandtes, p. 220 sq. The medical doctrine expounded by Eryximachus in the Symposium, although perhaps slightly colored with Heraclitean thought, is that of the Hippocratic treatises, notably of $\Pi \epsilon \rho i \phi i \sigma \iota \sigma s$ $\dot{a}\nu\theta\rho\omega\pi\sigma\nu$, from which we may quote one passage, c 7 (6.48 L.), $\kappa\alpha\tau\dot{a}$ φύσιν γάρ αὐτέω ταῦτά ἐστι μάλιστα τοῦ ἐνιαυτοῦ . . . ἔχει μὲν οὖν ταῦτα πάντα αίει τὸ σῶμα τοῦ ἀνθρώπου, ὑπὸ δὲ τῆς περιισταμένης ὥρης ποτὲ μέν πλείω γίνεται αὐτὰ ἑωυτῶν, ποτὲ δὲ ἐλάσσω, ἕκαστα κατὰ μέρος [= ἐν μέρει] καὶ κατὰ φύσιν [sc. τοῦ ἐνιαυτοῦ] . . . ἰσχύει δὲ ἐν τῷ ἐνιαυτῷ τοτὲ μέν ὁ χειμών μάλιστα, τοτὲ δὲ τὸ ἦρ, τοτὲ δὲ τὸ θέρος, τοτὲ δὲ τὸ φθινόπωρον · οὕτω δὲ καὶ ἐν τῷ ἀνθρώπῷ τοτὲ μὲν τὸ φλέγμα ἰσχύει, τοτὲ δὲ τὸ αἷμα, τοτὲ δὲ ἡ χολή, πρῶτον μὲν ἡ ξανθή, ἕπειτα δ' ἡ μέλαινα καλεομένη. Not to repeat what I have elsewhere said in regard to the doctrines of Heraclitus and Empedocles, I refer the reader to my essay Qualitative Change in Pre-Socratic Philosophy, Archiv für Gesch. der Philos., Vol. 19. pp. 360 sq. and 365. Since the adikia and the dikn kal τ iois of Anaximander refer not to the origin and destruction of individual objects but to the successive encroachment of the elemental opposites

one on another in the seasonal changes of the year, it follows that the words of Anaximander cannot be used to support the interpretation of his $\ddot{a}\pi\epsilon\iota\rho\rho\nu-\dot{a}\rho\chi\dot{\eta}$ as a metaphysical world-ground in which the sin of individual existence is punished by the reabsorption of the concrete objects of experience. For this see On Anaximander, p. 225, n. 3, and my review of James Adam, The Vitality of Platonism and Other Essays, Amer. Journ. of Philol., Vol. 33 (1912), p. 93 sq.

∇² 13, 34. [Plut.] Strom. 2, φησὶ δὲ τὸ ἐκ τοῦ ἀιδίου γόνιμον θερμοῦ τε καὶ ψυχροῦ κατὰ τὴν γένεσιν τοῦδε τοῦ κόσμου ἀποκριθῆναι καἱ τινα ἐκ τούτου φλογὸς σφαῖραν περιφυῆναι τῷ περὶ τὴν γῆν ἀἑρι ὡς τῷ δένδρῷ φλοιόν. ἦστινος ἀπορραγείσης καὶ εἴς τινας ἀποκλεισθείσης κύκλους ὑποστῆναι τὸν ἤλιον καὶ τὴν σελήνην καὶ τοὺς ἀστέρας.

The words $\tau \dot{o} \dots \psi v \chi \rho o \hat{v}$ have been much discussed and variously interpreted. Zeller, I^a 220, n. 1, pronounces the text corrupt and suggests φησί δ' ἐκ τοῦ ἀιδίου τὸ γόνιμον θερμόν τε καὶ ψυχρόν, rejecting Neuhäuser's obviously correct proposal to take the genitives $\theta \epsilon \rho \mu o \hat{\nu}$ and ψυχροῦ as depending on γόνιμον. Burnet, Early Greek Philosophy², p. 66, retaining the traditional text, renders, "Something capable of begetting hot and cold was separated off from the eternal." If we were dealing with a poet we might take such liberties, but we may safely dismiss the interpretation as impossible for prose. Diels gives no definite indication of his understanding of the words, but claims yónupov as possibly belonging to Anaximander, certainly to Theophrastus, referring in support of his contention to Porphyr. De Abstin. 2. 5. The text of Porphyry, however, throws no light on ours, and there is good reason to doubt whether we may attribute the word to Theophrastus. In all probability we are dealing with a Stoic source, however related to Theophrastus; for $\gamma \delta \nu \mu \rho \nu$ seems to be a congener to the $\lambda \delta \gamma os \sigma \pi \epsilon \rho \mu a \tau \iota \kappa \delta s$ of the Stoics. Cp. Marc. Aurel. 9. 1. 4, λέγω δέ το χρήσθαι τούτοις έπίσης την κοινήν φύσιν άντι τοῦ συμβαίνειν έπίσης κατά τὸ έξῆς τοῖς γινομένοις καὶ ἐπιγινομένοις ὁρμŷ τινι άρχαία της προνοίας, καθ' ην άπό τινος άρχης ώρμησεν έπι τήνδε την διακόσμησιν, συλλαβοῦσά τινας λόγους τῶν ἐσομένων καὶ δυνάμεις γονίμους άφορίσασα ὑποστάσεών τε καὶ μεταβολῶν καὶ διαδοχῶν τοιούτων. It. seems fairly certain that $\tau \delta \ldots \gamma \delta \nu \mu \rho \nu$ $\theta \epsilon \rho \mu \rho \delta \tau \epsilon \kappa a \psi \nu \chi \rho \rho \delta$ is the Stoic anoiss $\delta \lambda \eta$ which contains $\delta \nu \nu \dot{a} \mu \epsilon \iota$ the hot and the cold of the cosmos. We thus find masked in Stoic phraseology the *\phi\u03c4 ois \dopsilon of \u03c4 of \u* of Theophrastus. This $\gamma \dot{\delta} \nu \mu \rho \nu$ $\theta \epsilon \rho \mu \rho \hat{\nu} \tau \epsilon \kappa a \psi \nu \chi \rho \rho \hat{\nu}$ is, at least in extent, not identical with the $a\pi\epsilon\mu\rho\rho\nu$ itself, but was "separated off" from it at the origin of our cosmos. It must, therefore, be that por-

tion of the $a\pi\epsilon\iota\rho\rho\nu$ - $a\rho\chi\eta$ which gave rise to the present world. Tannery, Zeller, Burnet, and others regard ἐκ τοῦ ἀιδίου as referring to the $\ddot{a}\pi\epsilon\mu\rho\sigma\nu$, thinking perhaps of certain passages referring to Xenophanes, Melissus, and Anaxagoras; but Zeller at least perceived that this was not to be accepted without considerable violence to the text. I maintain the correctness of my suggestion, On Anaximander, p. 229, n. 2, that we are to supply $d\pi \partial \tau o \hat{\upsilon} d\pi \epsilon i \rho o \upsilon$ with $d\pi o \kappa \rho \iota \theta \hat{\eta} \nu a \iota$, whether it ever stood in the text or not, and that the phrase $\dot{\epsilon}\kappa \tau o\hat{v}$ $\dot{a}\iota\delta iov$, which stands just where it belongs, means "from eternity." We are familiar with ès allow, "forever," and Marc. Aurel. 2. 14; 4. 21; 10. 5 thrice uses $\xi \xi$ allow in that sense, and numerous other instances might be cited. It happens that I cannot point to another instance of $\epsilon \kappa \tau \sigma \hat{v}$ άιδίου, but the analogy of parallel expressions occurring with and without the article would render it not at all surprising if such should be found in late authors. The expression under consideration may be taken with confidence to mean "The eternal substratum capable by dynamic evolution of producing hot and cold."

The remainder of this interesting passage also deserves renewed consideration. It speaks of a 'sphere of flame,' and this appears to be generally accepted as establishing the sphericity of Anaximander's cosmos. Diels has not, to my knowledge, expressed himself in unmistakable terms; but his description of the $\phi \lambda o \gamma \delta s \sigma \phi a \hat{\iota} \rho a$ as a "Waberlohe" would be best taken as applicable to a circle. A conclusion so opposed to the apparent meaning of the word $\sigma\phi a \hat{\iota} \rho a$ will surprise no one who is familiar with the general ambiguity of words in Greek meaning 'round' and the uncritical habit among later authors of attributing Eudoxian notions to earlier cosmologists and astronomers, provided that the remainder of the statement points to a circle rather than a sphere. I have no intention of discussing here the whole subject, which would require a connected examination of all the data of early Greek cosmology, but propose to confine my attention to this one passage. It is pertinent, however, to remark that on other grounds I have elsewhere found reasons for doubting the correctness of the Aristotelian account, which places the earth in Anaximander's scheme at the center of a sphere; for if Aristotle's authority is accepted as final, the interpretation here offered will be ruled out of court without a hearing. See my essay, The $\Delta i \nu \eta$ in Anaximenes and Anaximander, Class. Philol., Vol. 1, p. 279 sq., especially p. 281.

Let us then address ourselves to the text: καί τινα ἐκ τούτου φλογὸς σφαῖραν περιφυῆναι τῷ περὶ τὴν γῆν ἀἑρι ὡς τῷ δένδρῳ φλοιόν· ἦστινος ἀπορραγείσης καὶ εἴς τινας ἀποκλεισθείσης κύκλους ὑποστῆναι τὸν ἤλιον καὶ

τὴν σελήνην καὶ τοὺς ἀστέρας. The orthodox view appears to be that a sphere of flame is somehow exploded and (rather curiously!) reduced to a succession of circles of flame confined within an envelope of mist; these circles being those which constitute sun, moon, and stars. We have come to expect definite analogies and clear 'Anschauung' among the early Greek philosophers; and the severe strain which the current view puts on the imagination would of itself cast suspicion We might nevertheless feel compelled, however reluctantly, on it. to accept it, if the details of the account itself pointed to it or were even consistent with it. It will probably be conceded that - the term $\sigma\phi a \hat{\iota} \rho a$ apart — it is vastly simpler to conceive of a wide annular mass breaking up into annular parts than to imagine the same result ensuing from the destruction of a sphere. But as a matter of fact our text says nothing that may fairly be interpreted as implying the breaking or exploding of the sphere. The crucial words are περιφυήναι and ἀπορραγείσης. Perhaps the real force of neither word has been appreciated. Here $\pi\epsilon\rho\iota\phi\nu\eta\nu\alpha\iota$ means that the "sphere" at first "snugly fitted" or was "closely attached to" the "air" which encircles the earth; whereas $\dot{a}\pi\rho\rho\alpha\gamma\epsilon i\sigma\etas$ states merely that subsequently it became detached, as even a superficial attention to the normal meaning of the terms will convince the reader. The contrast may be illustrated by Arist. Hist. Animal. 5. 19. 552°3, ταῦτα δὲ χρόνον μέν τινα κινειται προσπεφυκότα, ἕπειτ' ἀπορραγέντα φέρεται κατὰ τὸ ὕδωρ, ai καλούμεναι ἀσκαρίδες. Besides, ἀπορρηγνύναι is not the proper word to use of the tearing of such an envelope as a sphere of flame: Greek writers so use $\dot{\rho}\eta\gamma\nu\dot{\nu}\nu\alpha\iota$, $\delta\iota\alpha\rho\rho\eta\gamma\nu\dot{\nu}\nu\alpha\iota$, and $\pi\epsilon\rho\rho\rho\eta\gamma\nu\dot{\nu}\nu\alpha\iota$, especially the last-mentioned, as might be shown by a long list of examples derived from Aristotle and other authors. The same general conception is implied in the simile $\dot{\omega}_{s} \tau \hat{\omega} \delta \epsilon \nu \delta \rho \omega \phi \lambda_{0} \delta \nu$. We may not press similes beyond the immediate point of comparison, which in this instance is the snugness of the fit; but if one is to press it, it is obvious that the bark of a tree is annular rather than spherical. It will hardly serve the interest of the objector to refer to Anaximander's notion of the prickly integument of the first animals, V² 17, 18, $\epsilon \nu$ ύγρῷ γενηθήναι τὰ πρῶτα ζῷα φλοιοῖς περιεχόμενα ἀκανθώδεσι... περιρρηγνυμένου τοῦ φλοιοῦ; for there, as περιρρηγνυμένου sufficiently shows, the conception is altogether different. It is quite possible, as later Greek thinkers prove, to conceive of the cosmos and the human embryo as equally inclosed in a $\dot{\nu}\mu\dot{\eta}\nu$ without pressing the comparison beyond reason. I have noted with some interest another passage in which the meaning of $\dot{a}\pi\rho\rho\eta\gamma\nu\nu\nu$ has been similarly misconceived.

Arist. Hist. Animal. 5.18. 549^b 31 sq. the spawning of the octopus and the development of its young are described. There we read 550^{a} 3, $\tau \dot{a} \ \mu \dot{e} \nu \ o \ddot{\nu} \nu \ \pi o \lambda \nu \pi \delta \delta \omega \nu \ \mu e \theta' \dot{\eta} \mu \dot{e} \rho as \ \mu \dot{a} \lambda \iota \sigma \tau a \ \pi e \nu \tau \dot{\eta} \kappa o \nu \tau a \ \gamma \dot{\iota} \nu e \tau a \iota \dot{\epsilon} \kappa \ \tau \dot{\omega} \nu \ \dot{\pi} o \rho \rho a \gamma \dot{e} \nu \ \pi o \lambda \nu \pi \delta \delta \omega \nu \ \mu e \theta' \dot{\eta} \mu \dot{e} \rho as \ \mu \dot{a} \lambda \iota \sigma \tau a \ \pi e \nu \tau \dot{\eta} \kappa o \nu \tau a \ \gamma \dot{\iota} \nu e \tau a \iota \dot{\epsilon} \kappa \ \tau \dot{\omega} \nu \ \dot{\pi} o \rho \rho a \gamma \dot{e} \nu \ \pi o \lambda \nu \pi \delta \delta \omega \nu \ \mu e \theta' \dot{\eta} \mu \dot{e} \rho as \ \mu \dot{a} \lambda \iota \sigma \tau a \ \pi e \nu \tau \dot{\eta} \kappa o \nu \tau a \ \gamma \dot{\iota} \nu e \tau a \iota \dot{\epsilon} \kappa \ \tau \dot{\omega} \nu \ \dot{\pi} o \rho a \lambda \dot{\epsilon} \gamma \nu a, \ \pi o \lambda \lambda \dot{a} \ \tau \dot{\sigma} \ \pi \lambda \dot{\eta} \partial \sigma$. Professor Thompson in his recent translation renders it thus: "Some fifty days later, the eggs burst and the little polupuses creep out" [italics mine]. In fact there is no reference to the bursting of the eggs. Aristotle's meaning is that that which develops into the individual polyp becomes detached from the vine-like mass which he has previously described, and that the young crawl forth (not from the eggs, but) from the hole or vessel in which the spawn was deposited.

To return to the cosmology of Anaximander: the words kal éls tivas άποκλεισθείσης κύκλους refer not specifically to σφαίρα but to φλόξ. The Waberlohe by some means, doubtless identical with that which detached the envelope of flame from the envelope of "air" was segregated into a number of annular masses, each like the earth inclosed in an envelope of "air." This segregation is not specifically mentioned but must be inferred; and we can guess only at the immediate cause of it. Now it is fairly certain that Anaximander knew the obliquity of the ecliptic or, as the early Greeks seem regularly to have called it, the inclination or dip of the zodiac or ecliptic. Pliny, as we have seen, attached great significance to its discovery, and so far as we know all the early Greek philosophers regarded it as an actual dipping resulting from some cause subsequently to the origin of the cosmos. Such an event would amply explain the initial break between the respective envelopes of "air" and flame; what caused the subsequent disintegration of the circle of flame into separate rings we do not know and perhaps it were idle further to speculate.

∇² 17, 18. Aet. 5. 19. 4, 'Αναξίμανδρος ἐν ὑγρῷ γενηθῆναι τὰ πρῶτα ζῷα φλοιοῖς περιεχόμενα ἀκανθώδεσι, προβαινούσης δὲ τῆς ἡλικίας ἀποβαίνειν ἐπὶ τὸ ξηρότερον καὶ περιρρηγνυμένου τοῦ φλοιοῦ ἐπ' ὀλίγον μεταβιῶναι.

In V¹ and ² the word $\chi\rho\delta\nu\nu\nu$ was omitted by mistake after $\epsilon\pi'$ $\delta\lambda'\gamma\nu\nu$; his attention having been called to the omission by me, Diels has restored it in V³. Ordinarily a fact of this sort would hardly deserve to be noted; but since the false reading has found its way into Kranz's *Wortindex*, s. v. $\mu\epsilon\tau\alpha\beta\iota\sigma\nu$, and has been quoted without question by various writers, as e. g. by Otto Gilbert, *Die meteorol. Theorien des gr. Altertums*, p. 332, n. 1, and Kinkel, *Gesch. der Philos.*, I. p. 7^{*}, it calls for more than a tacit correction. This is the more necessary because

the text has been very generally misunderstood and false conclusions have been drawn from it. It is perhaps unnecessary to recount in detail this chapter of curious errors. I have no means of knowing what interpretation Diels now puts on the text; but in the absence of any indication in his notes it seems reasonable to assume that he still adheres to the view briefly set forth in the index to his Doxographi Graeci, s. v. μεταβιοῦν: "mutare vitam [cf. μεταδιαιτâν]." This may be said to have been the common view of recent interpreters, until Burnet, Early Greek Philosophy², p. 72 sq., correcting the version of his first edition, returned to the correct rendering of Brucker, "ruptoque cortice non multum temporis supervixisse," which Teichmüller with characteristic ignorance of Greek sharply condemned, Studien zur Gesch. der Begriffe, p. 64, n. Tannery, Pour l'histoire de la science hellène, pp. 87 and 117, gives in effect two renderings, each incorrect. The important point to note is that $\dot{\eta}\lambda_{i\kappa}$ can refer to nothing but the age of the individual; and that $\dot{\epsilon}\pi'$ $\partial\lambda(\gamma_{0}\nu)\chi_{\rho}$ have but one meaning, to wit, "for a short time only." The force of $\mu\epsilon\tau \alpha\beta\iota\omega\nu\alpha\iota$ must, therefore, be determined with reference to these known quantities of the problem. This once granted, the decision between the rival claims of *vitam mutasse* and *supervixisse* is easy and To be sure, $\mu\epsilon\tau\dot{\alpha}$ in composition far more frequently implies certain. change than it denotes 'after'; but $\mu\epsilon\tau\alpha\delta\epsilon\iota\pi\nu\epsilon\hat{\iota}\nu$ is as well attested as μεταδιαιτάν. However if, as seemed plausible from Diels's earlier editions, it were possible to conceive that the correct text was $\dot{\epsilon}\pi'$ όλίγον μεταβιώναι, one might have inclined to take $\dot{\epsilon}\pi$ ' όλίγον in the sense of "to a small extent," as in Arist. Meteor. 350^b 28 and Marcellinus, Vita Thucyd. 36, and to interpret $\mu\epsilon\tau\alpha\beta\iota\omega\nu\alpha\iota$ as referring to a change in the mode of life. Another possibility, which I have considered, would be to take $\dot{\epsilon}\pi$ $\dot{\delta}\lambda\dot{\iota}\gamma\sigma\nu$ and $\mu\epsilon\tau\alpha\beta\iota\hat{\omega}\nu\alpha\iota$ in the sense just indicated and to read $\chi \rho \delta \nu \omega$ for $\chi \rho \delta \nu \sigma \nu$, thus obtaining the sense "they changed their mode of life to a small extent in course of time." This suggestion was very tempting to one who was prepared to find an anticipation of Darwinism in Anaximander; but against all these proposals $\dot{\eta}\lambda\iota\kappa\iota a$ stands with its inexorable veto. The sort of change contemplated would require more than one life-time, and $\dot{\eta}\lambda \iota \kappa \iota a$ limits the action of $\mu\epsilon\tau\alpha\beta\iota\omega\nu\alpha\iota$ to the life-period of the individual. We must therefore content ourselves with the rendering "As they advanced toward maturity the first animals proceeded from the wet on to the drier ground and as their integument burst (and was sloughed off) they survived but a little while." Perhaps this interpretation may be further supported by a comparison of the view thus obtained with

that of the origin of animal life attributed to Archelaus, V² 324, 18, περὶ δὲ ζώων φησίν, ὅτι θερμαινομένης τῆς γῆς τὸ πρῶτον ἐν τῷ κάτω μέρει, ὅπου τὸ θερμὸν καὶ τὸ ψυχρὸν ἐμίσγετο, ἀνεφαίνετο τά τε ἄλλα ζῷα πολλὰ καὶ οἱ ἄνθρωποι, ἅπαντα τὴν αὐτὴν δίαιταν ἔχοντα ἐκ τῆς ἰλύος τρεφόμενα (ἦν δὲ ὀλιγοχρόνια). ὕστερον δὲ αὐτοῦς ἡ ἐξ ἀλλήλων γένεσις συνέστη.

c. 3. Anaximenes.

\mathbf{V}^2 17, 37. οῦτος ἀρχὴν ἀέρα εἶπεν καὶ τὸ ἄπειρον.

In his note in V³ Diels says: "Missverständnis oder Verderbnis statt καὶ τοῦτον ἄπειρον." This suggestion is plausible, but far from certain. As I showed in my study of $\dot{a}\rho\chi\dot{\eta}$, On Anaximander, various vestiges of an earlier cosmological, non-metaphysical, sense of that word survive in Aristotle; it can hardly be thought impossible that the same should be true of Theophrastus, from whom this statement of Diogenes ultimately derives. Indeed, as we shall see when we discuss Diogenes's account of the cosmology of Leucippus (cp. p. 732, on V^2 343, 1), there is at least one such vestige, though almost obliterated by the unintelligence of excerptors or copyists. But, leaving that for the present aside, we are credibly informed that Anaximenes regarded the outer "air" as boundless, upon which fact Diels relies for his proposed correction; and we know that Anaximenes held the doctrine of the cosmic respiration, in accordance with which the cosmos subsists, as it arises, by receiving its substance from the encircling $a\pi\epsilon\iota\rho\sigma\nu$ in the form of $\pi\nu\epsilon\hat{\nu}\mu a$ or breath. This $\pi\nu\epsilon\hat{\nu}\mu a$ comes from and returns to the $a\pi \epsilon \rho \rho \nu$, which is therefore nothing else but an άρχη και πηγή, or reservoir, of πνεθμα. We thus have a complete parallel, so far as concerns the $\pi\nu\epsilon\hat{\nu}\mu\alpha$ - $\dot{a}\eta\rho$, to the doctrine of the early Pythagoreans reported by Aristotle. Cp. my Antecedents of Greek Corpuscular Theories, p. 139 sq. In V³ I. 354, 16 sq. Diels has corrected the text of Aristotle along the lines I suggested. I cannot, however, approve of the bracketing of $\chi \rho \delta \nu \sigma \nu$, ib. 22, as proposed by Diels.

V² 18, 30 sq. Hippolytus, Ref. 1.7.

The corrupt state of the text of Hippolytus's Philosophumena, especially in the first book, is well known. With the aid of Cedrenus Diels has been able to set many passages right; yet much remains to be done. In 1. 7, the chapter devoted to Anaximenes, several additions or interpolations which ought to be removed or bracketed still encumber the text, though we cannot determine to whom they are due. Diels formerly bracketed πυκνότατον (V² 18, 39), but now contents himself with characterizing it as an inaccuracy of the late compiler. There are, however, two larger additions which are false and misleading. V² 18, 31, άέρα ἄπειρον ἔφη τὴν ἀρχὴν εἶναι, έξ οῦ τὰ γινόμενα καὶ τὰ γεγονότα καὶ τὰ ἐσόμενα καὶ θεοὺς καὶ $\theta \epsilon \hat{\imath} a \gamma i \nu \epsilon \sigma \theta a i, \tau \dot{a} \dot{\delta} \epsilon \lambda \delta i \pi \dot{a} \dot{\epsilon} \kappa \tau \hat{\omega} \nu \tau \delta \tau \sigma v$ [so Diels, following C: τούτων T] \dot{a} πογόνων. It is obvious that in the statement of Theophrastus the $\dot{a}\pi \dot{o}\gamma o \nu o \iota$ were those of the first generation, and not the absurd list we here have presented to us. The primary forms of existence are afterwards mentioned, V² 18, 35-40: the report of Theophrastus is even better preserved by Cic. Acad. 2. 37. 118 (V² 19, 16), "Anaximenes infinitum aëra, sed ea, quae ex eo orerentur, definita: gigni autem terram, aquam, ignem, tum ex iis omnia. The variant readings above noted are probably due to the intrusion of the impertinent clause, which clearly does not derive from Theophrastus. Whether Hippolytus or some other made the addition I find it difficult to decide. A second instance of the same kind occurs V^2 18, 35, κινεῖσθαι δὲ ἀεί· οὐ γὰρ μεταβάλλειν ὅσα μεταβάλλει, εἰ μὴ κινοῖτο. This sentence is awkward and intervenes between two parts of the exposition of the changes to which "air" is subject. What we expect from Theophrastus is something about the kivnois allows, and doubtless he did refer to it here. The clause κινείσθαι δè ἀεί in all probability is sound and derives from him; but the sentence of $\gamma \dot{a} \rho$. . . κινοῖτο introduces a foreign element. Perhaps Hippolytus found it in his immediate source.

I add here a note on V² 19, 2, where the MSS read $\dot{a}\nu\epsilon\mu\omega\sigmas$ $\delta\dot{\epsilon}\gamma\epsilon\nu\nu\hat{a}$ - $\sigma\theta a\iota$, $\ddot{\sigma}\tau a\nu$ $\dot{\epsilon}\kappa\pi\epsilon\pi\nu\kappa\nu\omega\mu\dot{\epsilon}\nu\sigmas$ $\dot{\delta}$ $\dot{a}\dot{\eta}\rho$ $\dot{a}\rho a\iota\omega\theta\epsilon\dot{\iota}s$ $\phi\dot{\epsilon}\rho\eta\tau a\iota$, and Diels prints $\ddot{\sigma}\tau a\nu$ $\dot{\eta}$ $\pi\epsilon\pi\nu\kappa\nu\omega\mu\dot{\epsilon}\nu\sigmas$ $\dot{\delta}$ $\dot{a}\dot{\eta}\rho$ $\kappa a\iota$ $\dot{\omega}\sigma\theta\epsilon\dot{\iota}s$ $\phi\dot{\epsilon}\rho\eta\tau a\iota$. This reading seems to me to depart farther than necessary from the MS. text. I would propose $\ddot{\sigma}\tau a\nu$ $\ddot{\eta}$ π . $\dot{\delta}$ $\dot{a}\dot{\eta}\rho$ $\ddot{\eta}$ $\dot{a}\rho a\iota\omega\theta\epsilon\dot{\iota}s$ $\phi\dot{\epsilon}\rho\eta\tau a\iota$. Though a greater degree of rarefaction or condensation would, according to Anaximenes, result in fire or cloud respectively, it does not appear why he might not have held that a more moderate change in either direction gave rise to wind.

c. 11. Xenophanes.

V² 34, 16. Diog. L. 9.19, (φησί) τὰ νέφη συνίστασθαι τῆς ἀφ' ἡλίου ἀτμίδος ἀναφερομένης καὶ αἰρούσης αὐ τὰ εἰς τὸ περιέχον.

Diels still regards this doxography preserved by Diogenes as derived from Theophrastus through the biographical line of tradition.

The whole account is, as Diels, *Doxographi Graeci*, p. 168, pointed out, remarkable for its curious statements. I confess that, if it be really derived from Theophrastus, it seems to me to have suffered changes similar in character to those of the doxography of Hippolytus (V² 41, 25 sq.), which owes much of its data to the Pseudo-Aristotelian treatise De Melisso, Xenophane, Gorgia. But first let us speak of the passage transcribed above. What Xenophanes taught concerning the origin of clouds is clearly stated by Aet. 3. 4. 4 (V² 43, 20), άνελκομένου γάρ έκ της θαλάττης τοῦ ὑγροῦ τὸ γλυκὺ διὰ τὴν λεπτομέρειαν διακρινόμενον νέφη τε συνιστάνειν δμιχλούμενον και καταστάζειν ὄμβρους ύπό πιλήσεως και διατμίζειν τὰ πνεύματα. Cp. also fr. 30. It is clear that Theophrastus simply stated the theory of the meteoric process, according to which clouds originate from vapors rising under the action of solar heat and lifting skyward. In the text of Diogenes we readily note two inaccuracies. We should doubtless read $\dot{\nu}\phi'$ for $\dot{a}\phi'$, since vapors rising *from* the sun are sheer nonsense. The other difficulty is at first more puzzling; for a vapor lifting clouds skyward is nonsense likewise. The vapor condensed to mist or fog $(\delta \mu \iota \chi \lambda o \dot{\iota} \mu \epsilon \nu o \nu)$ is cloud. I therefore suggested to Professor Diels that we bracket $a\dot{v}\tau\dot{a}$ and take alpoirons in its intransitive sense: he records, but does not accept, the proposal in his third edition. It is at once clear that this would remove all difficulties from the passage. Probably Professor Diels was doubtful about the intransitive use of $a i \rho \omega$, which the lexica almost entirely ignore. Of that usage I gave examples in a Note on Menander, Epitrepontes 103 sq., published in Berl. Philol. Wochenschr., 1909, No. 16, col. 509 sq. I there cited Plato, Phaedr. 248 A, Arist. Respir. 475^a 8 and 479^a 26, Sophoel. Philoet. 1330. To these instances I would now add Sophoel. O. R. 914 and the Schol. to Sophoel. ad loc. and p. 239, 4; Proclus in Tim. I. 78, 2 Diehl. Other examples, concerning which there may be some doubt, I now omit, but may recur to the subject another time. There can be no question, therefore, that $a' \rho \epsilon \nu$ was used intransitively, and in our passage the change appears to be demanded by the sense. Probably some one not familiar with the usage added $a\dot{v}\tau\dot{a}$ in order to supply an object, but in so doing he gave us nonsense.

In this same paragraph occur the words (V² 34, 18) öλον δε όρῶν καὶ öλον ἀκούειν, μὴ μέντοι ἀναπνεῖν. I discussed this passage briefly in Antecedents of Greek Corpuscular Theories, p. 137 sq., pointing out its agreement with Plato, Tim. 32 C-33 C. I ought in justice to say that the parallel had been previously noted by Tannery, Pour l'histoire de la science hellène, p. 121, though the fact had slipped from my memory.

Since my previous discussion I have come to doubt whether the words of the Timaeus may be used to support the statement of Diogenes. About the agreement itself there can be no question. Plato does not, however, mention Xenophanes, and there is no indication in his text that what he says is to be taken as a correct statement of his doctrine. If we were quite sure that the report of Diogenes came materially unchanged from Theophrastus, the parallel would unquestionably prove that Xenophanes expressly denied the doctrine of the cosmic respiration. Tannery would then be justified in holding, as he did, that the brief notice of Diogenes was a precious document showing beyond question that Xenophanes was engaged in a sharp polemic against the Pythagoreans, whose doctrine, amply attested by Aristotle. he emphatically denied. Tannery's position would be untenable except on the assumption that Pythagoras himself proposed the theory of cosmic respiration: the testimony of Aristotle, however, who refers (as always) not to Pythagoras but to the Pythagoreans, is scarcely adequate to establish it. On the other hand, as has already been said, the accuracy and integrity of the account of Diogenes is subject to grave suspicion. The statement with which it opens, that Xenophanes held the doctrines of the four physical elements $(\sigma \tau o i \chi \epsilon \hat{i} \alpha)$ and of innumerable worlds, cannot be reconciled with other data unquestionably derived from Theophrastus. Again, the sentence V² 34, 19, πρώτός τε ἀπεφήνατο ὅτι πῶν τὸ γινόμενον φθαρτόν ἐστι, in which Otto Gilbert, Die meteorol. Theorien des gr. Altertums, p. 98. n. 1, sees "nur ein ungenauer Ausdruck für die Rückbildung der Elemente in den Urstoff" (!), appears to be nothing but an echo of the anecdote related by Arist. Rhet. 2.23 1399^b 6 (V² 35, 21), olov Ξενοφάνης ἕλεγεν ὅτι ΄΄ ὑμοίως ἀσεβοῦσιν οἱ γενέσθαι φάσκοντες τοὺς θεοὺς τοîs ἀποθανεῖν λέγουσιν," and of De Melisso, Xenophane, Gorgia, 977ª 14 sq., which latter passage in turn incorporates arguments derived This fact should give us pause, and suggests that from Plato. Diogenes's account of the philosophy of Xenophanes is derived from a source which, like that of Hippolytus (V² 41, 25 sq.) and Simplicius (V² 40, 21 sq.), sought to eke out the scanty Theophrastean summary with information coming from the spurious De Melisso, Xenophane, Gorgia, and ultimately from the Timaeus and Parmenides of Plato. I am therefore inclined to believe that the statement of Diogenes, $\mu\dot{\eta}$ $\mu\dot{\epsilon}\nu\tau\sigma\iota$ $\dot{a}\nu a\pi\nu\epsilon\hat{\iota}\nu$, rests solely on the Timaeus, which the compiler regarded as a trustworthy source for the philosophy of Xenophanes.

I may add a brief note on the word $\pi\rho\hat{\omega}\tau\sigma s$ in the sentence just quoted (V² 34, 19). Diels long ago observed that the claim of

Xenophanes to be the originator of this doctrine is absurd and opposed to statements of Aristotle and Theophrastus. How came the claim to be made? During the sixth and fifth centuries B. C., as we well know, much interest attached to the inventors of contrivances and the first propounders of ideas, as was entirely natural in the fine burst of individualism characteristic of the epoch. We commonly think of the passionate quest for $\epsilon \dot{\nu} \rho \eta \mu a \tau a$ during the Alexandrian Age, but Herodotus (1.25; 1.171; 2.4; 2.24; 2.109; 3.131; 4.42; 4.44) and the earlier logographers display the same interest. The exaggerations to which claims of this nature led have been well illustrated by Professor J. S. Reid, Lucretiana, Harvard Studies in Class. Philol., Vol. 22 (1911), p. 1 sq. in his note on Lucret. 1, 66 sq. Certain peculiarities of phrase used in such connections deserve attention. Thus Herod. 1.25 says, Γλαύκου τοῦ Χίου, ὃς μοῦνος δη πάντων ἀνθρώπων σιδήρου κόλλησιν έξεῦρε, using μοῦνος, where we might have expected $\pi\rho\hat{\omega}\tau os$, to denote the sole original authorship of Glaucus. When data were collected for the later compilations such turns may have given rise to errors. In some such way we may perhaps account for the embarrassment of Simplicius (V² 18, 19) in regard to Anaximenes: ἐπὶ γὰρ τούτου μόνου Θεόφραστος ... τὴν μάνωσιν εἴρηκε καὶ πύκνωσιν, δήλον δέ ώς καὶ οἱ ἄλλοι τῃ μανότητι καὶ πυκνότητι ἐχρῶντο. Here Diels formerly accepted Usener's suggestion of $\pi\rho\omega\tau\sigma\nu$ for $\mu\delta\nu\sigma\nu$, but has latterly with good reason returned to the MS. reading, which the context requires.

V² 36. De Melisso, Xenophane, Gorgia 977^a 18, ταὐτὰ γὰρ ἅπαντα τοῖς γε ἴσοις καὶ ὁμοίως ὑπάρχειν πρὸς ἄλληλα.

Here Diels follows the reading of L, except that he rightly changes $\tau a \tilde{v} \tau a$ to $\tau a \dot{v} \tau \dot{a}$: R, which is second only to L, gives $\tilde{v} \sigma o s \tilde{\eta} \dot{\delta} \mu o loss$. Probably neither reading is correct. Arist. De Gen. et Corr. 1. 7. 323^{b} 5 has $\pi \dot{a} \nu \tau a \gamma \dot{a} \rho \dot{\delta} \mu o loss \dot{v} \pi \dot{a} \rho \chi \epsilon i \nu \tau a \dot{v} \tau \dot{a} \dot{v} \tau \dot{a} \dot{v} \sigma \dot{s} \dot{\delta} \mu o loss$. Both passages, however, rest upon Plato, Parm. 139 E-140 D, where the implications of the $\tilde{\delta} \mu o los \nu$ and $\dot{a} \nu \delta \mu o los \nu$ are first considered, then those of the $\tilde{v} \sigma v$ and $\tilde{a} \nu \sigma \sigma v$. In view of this fact I think we should read $\tau \sigma \hat{s} \gamma \epsilon \tilde{v} \sigma \sigma s \kappa a \dot{s} \langle \dot{\delta} \mu o los \rangle \delta \mu o los$.

c. 12. Heraclitus.

- **V**² 61, 35. Fr. 1, όκοίων ἐγὼ διηγεῦμαι διαιρέων ἕκαστον κατὰ φύσιν καὶ φράζων ὅκως ἔχει.
- These words have been variously interpreted. So far as I am aware

everybody has regarded $\phi i \sigma is$ as meaning "nature" in some one of its numerous acceptations and $\epsilon \kappa \alpha \sigma \tau \sigma \nu$ as being the immediate object of $\delta \iota \alpha \iota \rho \epsilon \omega \nu$. With respect to neither word, I believe, is the current opinion correct. The phrase ἕκαστον κατὰ φύσιν, which has been misinterpreted in various connections, means "each after its kind." We shall have to discuss a similar phrase in Empedocles, fr. 110, 5. The object of $\delta i \alpha i \rho \epsilon \omega \nu$, as of $\delta i \eta \gamma \epsilon \hat{\nu} \mu \alpha i$, is contained in $\delta \kappa o i \omega \nu$, which $\epsilon \kappa \alpha \sigma \tau \sigma \nu$ distributes: "Making trial of such arguments and facts as I recount, distinguishing them each after its own kind and declaring the nature of each." I have rendered $\delta \kappa \omega s \, \tilde{\epsilon} \chi \epsilon \iota$ ambiguously with "nature," for the phrase occurs frequently in Hippocrates where the $\phi i \sigma i \sigma$ of things is to be explained, when nothing but the context, and often not even that, makes it possible to decide whether $\phi i \sigma is$ has regard primarily to the process of growth or to the constitution of the thing in which the process eventuates. In this fragment the precise implication of ὄκωs ἔχει cannot be determined; below (V² 91, 23) in Epicharmus, fr. 4, 6, we shall find an instance of $\dot{\omega}s \, \ddot{\epsilon} \chi \epsilon \iota$ in which the process is obviously intended. I referred briefly to this question in my $\Pi \epsilon \rho i \Phi i \sigma \epsilon \omega s$, p. 126, n. 180 and p. 127, n. 185, and illustrated the scientific ideal of dividing and simplifying complex problems by distinguishing between classes and individuals, ibid. pp. 123-125. Perhaps the most noteworthy text is the following, Hipporr. $\Pi \epsilon \rho \lambda$ διαίτης ὀξέων, $1~(2.~226~{
m L.})$, ἀτὰρ οὐδὲ περὶ διαίτης οἱ ἀρχαῖοι ξυνέγραψαν οὐδέν ἄξιον λόγου, καίτοι μέγα τοῦτο παρῆκαν. τὰς μέντοι πολυτροπίας τὰς ἐν ἑκάστη τῶν νούσων καὶ τὴν πολυσχιδίην αὐτέων οὐκ ἠγνόεον ἔνιοι· τοὺς δὲ ἀριθμοὺς ἑκάστου τῶν νουσημάτων σάφα φράζειν ἐθέλοντες, οὐκ ὀρθῶς έγραψαν· μή γάρ οὐκ εὐαρίθμητον εἴη, εἰ τουτέω τις σημανεῖται τήν τῶν καμνόντων νοῦσον, τῷ ἕτερον ἑτέρου διαφέρειν τι, καὶ, ἢν μὴ τωὐτὸ νούσημα δοκέη είναι, μή τωὐτὸ οὕνομα ἔχειν.

V² 65, 10. Fr. 18, ἐἀν μὴ ἕλπηται, ἀνέλπιστον οὐκ ἐξευρήσει, ἀνεξερεύνητον ἐὀν καὶ ἄπορον.

Here, as in fr. 27, Diels and Nestle translate $\lambda \pi o \mu a \iota$ with "hope." Burnet here renders the word with "expect," there with "look for," in either case correctly. I am not sure, however, that he understands our fragment as I do. It is well known that $\lambda \pi i s$ may signify any degree of expectation ranging from vague surmise to lively hope or fear. In reading this fragment I am constantly reminded of a story which Tyndall tells of Faraday, who required to be told precisely what to look for before observing an experiment which was in preparation. All scientific observation, whether assisted or not assisted by

carefully controlled experimentation, presupposes an $\epsilon \lambda \pi i s$ — surmise or clearly formulated anticipation — of that which observation will show. To form such a conception is to exercise the scientific imagination, and the findings anticipated assume the shape of a theory or an hypothesis. Early Greek philosophy was so prolific of nothing else as of hypotheses, and the philosophy of Heraclitus in particular is nothing but a bold hypothesis, whatever concrete observations may have led him to propound it. Now, that is precisely what I conceive our fragment to mean: "Except a man venture a surmise, he will not discover that which he has not surmised; for it is undiscoverable and baffling." Fr. 123, φύσις κρύπτεσθαι φιλεί, 'the processes of nature are not to be read by him who runs, for the true inwardness of things does not appear on the surface', is probably to be understood in the same sense; for $\dot{a}\rho\mu\sigma\nu\eta$ $\dot{a}\phi a\nu\eta$ s $\phi a\nu\epsilon\rho\eta$ s $\kappa\rho\epsilon(\tau\tau\omega\nu)$ (fr. 54). So, too, fr. 86, άπιστίη διαφυγγάνει μη γιγνώσκεσθαι, probably refers not to faith in a dogma or a revelation but to the scientific faith which is the evidence of things not seen.

∇² 64, 1. Fr. 10, συνάψιες ὅλα καὶ οὐχ ὅλα, συμφερόμενον διαφερόμενον, συνάδον διάδον, καὶ ἐκ πάντων ἐν καὶ ἐξ ἐνὸς πάντα.

I do not recall seeing anywhere a reference to the evident reminiscence of this fragment in Seneca, De Otio, 5. 6, utrum contraria inter se elementa sint, an non pugnent, sed per diversa conspirent.

V² 66, 13. Fr. 28, δοκεόντων γάρ ό δοκιμώτατος γινώσκει φυλάσσειν· καὶ μέντοι καὶ δίκη καταλήψεται ψευδῶν τέκτονας καὶ μάρτυρας, ὅ ἘΦέσιός φησιν.

The text of this fragment is regarded by all critics as desperate, and desperate measures have been taken to restore it. I have no desire to canvass them, but shall offer an interpretation which, with a minimal alteration, appears to render it intelligible and quite as defensible as the texts obtained by introducing more radical changes. First of all, it seems clear that $\gamma \alpha \rho$ is due to Clement, who quotes the sentence, and must be set aside as not belonging to Heraclitus. This is the view of Bywater, who omits the word. If that be true, what is there to hinder our taking $\delta o\kappa \epsilon \delta \nu \tau \omega \nu$ as an imperative? It wants a subject, but that was doubtless supplied by the context from which the sentence was obviously wrested. A plausible conjecture is made possible by the reference in the last clause to the inventors and supporters of lies, who are clearly contrasted with those who receive

the philosopher's scornful permission to hold an opinion. If δοκεόντων has that meaning, it is transitive as in Herod. 9.65, δοκέω δέ, εί $\tau\iota$ περί τῶν θείων πρηγμάτων δοκέειν δεί. Whether we shall read \ddot{o} for \dot{o} or assume that δ was omitted by haplography before δ δοκιμώτατος is difficult to decide; for, as Diels has remarked, Heraclitus is sparing in the use of the article. I incline to insert $\langle \delta \rangle$, or possibly $\langle a \rangle$, the only change I consider necessary in the text. Critics appear to consider γινώσκει φυλάσσειν impossible or unintelligible. It is well known, however, that olda and $\epsilon \pi i \sigma \tau a \mu a \iota$ are used with the infinitive in the sense of "knowing how" to do anything, and in some cases the nuance given by these verbs is so slight as to be best disregarded in translating the thought into English. It is difficult to see why γινώσκω should not be used in the same construction as οίδα and $\epsilon \pi i \sigma \tau a \mu a \iota$. In fact we have two passages which are calculated to support the assumption that it was so used. Sophocl. Ant. 1087,

ίνα

τὸν θυμὸν οὗτος ἐς νεωτέρους ἀφῆ καὶ γνῷ τρέφειν τὴν γλῶσσαν ἡσυχωτέραν.

Eurip. Bacch. 1341,

εἰ δὲ σωφρονεῖν ἔγνωθ', ὅτ' οἰκ ἠθέλετε, τὸν Διὸς γόνον εὐδαιμονεῖτ' ἂν σύμμαχον κεκτημένοι.

Goodwin, Greek Moods and Tenses, 915, 3 (c), mentions the first passage only and takes $\gamma \iota \gamma \nu \omega \sigma \kappa \omega$ ($\xi \gamma \nu \omega \nu$) in the sense of "learning." The ingressive agrist naturally bears this sense; but it does not exclude the same construction with the present, as may be seen by comparison with $\epsilon \pi i \sigma \tau \alpha \mu \alpha i$, which shows the same meaning in the ingressive aorist, Herod. 3. 15, $\epsilon i \delta \epsilon \kappa a i \eta \pi i \sigma \tau \eta \theta \eta \mu \eta \pi o \lambda u \pi \rho a \gamma \mu o \nu \epsilon \epsilon i \nu$. This line of argument would perhaps not suffice to justify a conjectural introduction of γινώσκει into the text, but it is an adequate defense of a MS. reading. We have then to consider the meaning of $\phi \nu \lambda \dot{\alpha} \sigma \epsilon \nu$. Here we are thrown upon the fragment itself as our only resource, since the verb has a great variety of meanings. There seems to be a slight clue in the last clause. Diels appears to be right in assuming that Homer, Hesiod, and the like, are the $\psi \epsilon v \delta \hat{\omega} v \tau \epsilon \kappa \tau \sigma v \epsilon s$ $\kappa a i \mu a \rho \tau v \rho \epsilon s$. If this conjecture be true, it is not difficult to see that $\psi_{\epsilon\nu\delta\hat{\omega}\nu}$ $\tau_{\epsilon\kappa\tau\sigma\nu\alpha s}$ characterizes them as inventors of lies, and that $\psi \epsilon v \delta \hat{\omega} \nu \mu \dot{a} \rho \tau v \rho as$ can hardly mean those who commit perjury, but must rather refer to the witness they bear to falsehoods by recording

them in their verse. In other words, the woe pronounced upon the poets is for originating and perpetuating false views, whether they relate to the gods, to the desirability of banishing discord, or what not. But $\phi v \lambda \dot{a} \sigma \sigma \epsilon v$ does bear this precise sense of "perpetuating," and we may be justified in accepting it as referring to the $\pi \alpha \rho \alpha \delta \sigma \sigma \sigma$ of poetical tradition. I think it probable that δ δοκιμώτατος refers to Homer as the coryphaeus of the group of false teachers of the multitude whom Heraclitus is denouncing, and that the epithet signifies nothing more than that he is held in the highest esteem, although fr. 57 would perhaps rather suggest Hesiod. The subject of $\delta o \kappa \epsilon \delta \nu \tau \omega \nu$, then, is the uncritical multitude, who live according to the tradition of the fathers (fr. 74) and may be pardoned for what they do in ignorance, though woe shall be unto those through whom offence cometh. Accordingly I should translate the fragment rather freely somewhat after this manner: "Ay, let them think as he who is most highly esteemed among them contrives to report; but verily, judgment shall overtake those who invent and attest falsehoods." It is hardly necessary to add that Heraclitus was not threatening Homer with hell-fire, as Clement would have us suppose.

V² 68, 11. Fr. 41, έν τὸ σοφόν, ἐπίστασθαι γνώμην, ὅτέη ἐκυβέρνησε πάντα διὰ πάντων.

Here I accept the text, but not the interpretation of Diels, who renders the fragment thus: "In Einem besteht die Weisheit, die Vernunft zu erkennen, als welche alles und jedes zu lenken weiss." Nestle translates $\gamma\nu\omega\mu\eta\nu$ with "Geist"; and Burnet, with "thought." In order to arrive at the thought of Heraclitus, it is needful first of all to note how in a number of his fragments, which are concerned with his conception of true wisdom, he surcharges with meaning the terms for knowledge in contradistinction to sense-perception or opinion. Fr. 17, οὐ γὰρ φρονέουσι τοιαῦτα πολλοί, ὁκόσοι [so Diels, V³] ἐγκυρεῦσιν, ούδε μαθόντες γινώσκουσιν, εωυτοίσι δε δοκέουσι, "The majority of mankind [this, I think must be the meaning of $\pi o \lambda \lambda o i$, whether or not with Bergk we add oil, so far as they meet such problems, do not comprehend them even when instructed, though they think they do." Fr. 34, "They that lack understanding $(\dot{a}\xi \dot{\nu}\nu\epsilon\tau\sigma\iota)$ hear, but are like unto them that are deaf." Fr. 35, "Men who are lovers of wisdom must have acquired true knowledge of full many matters" ($\epsilon \tilde{v} \mu \alpha \lambda \alpha \pi o \lambda \lambda \hat{\omega} \nu$ $l\sigma\tau$ opas $\epsilon l\nu a l$). But Heraclitus is well aware that much instruction (cp. $\mu a \theta \delta \nu \tau \epsilon s$, fr. 17) does not impart understanding (fr. 40, $\pi o \lambda \nu \mu a \theta i \eta$ νόον έχειν ού διδάσκει · Ησίοδον γάρ άν έδίδαξε και Πυθαγόρην αυτίς τε

Ξενοφάνεά τε καὶ Ἐκαταῖον), else would the champions of the new, self-styled $i\sigma\tau o\rho i\eta$ and Hesiod, their coryphaeus, have got under-The same pregnancy of meaning as in fr. 17 attaches to standing. γινώσκειν in fr. 108, to be discussed more at length below, and in fr. 57, where Heraclitus says that Hesiod, whom men regard as most knowing, did not really comprehend (oùk $\epsilon\gamma(\nu\omega\sigma\kappa\epsilon\nu)$ day and night; for, contrary to his opinion, they are one. It is thus clearly shown that by understanding Heraclitus means a cognitive faculty or act which penetrates beyond superficial differences and distinctions, present to sense and uncritical fancy, to an inner core of truth, and is characterized by the apprehension of a fundamental unity. Again, the same point of view finds expression in fr. 56, where he likens mankind, readily duped when it comes to a true understanding of the surface show of things (έξηπάτηνται οι άνθρωποι πρός την γνώσιν των φανερών), to Homer, who could not read a foolish riddle propounded to him by *gamins*. Above. in discussing fr. 18, I have already touched on fr. 86, $\dot{a}\pi i\sigma \tau i\eta \delta ia\phi v\gamma \dot{a}\nu\epsilon i$ μη γιγνώσκεσθαι, maintaining that Heraclitus meant to imply that the true meaning of things is missed for want of a confident act of imaginative anticipation, whereby that which does not obtrude itself on our senses is brought home to the understanding. It is perhaps not too fanciful to detect the same distinction between sense and understanding, where understanding involves the synthesis of apperception, in fr. 97, κύνες γάρ καταβαΰζουσιν ών αν μή γινώσκωσι. Heraclitus would thus be merely repeating the distinction of Alcmaeon, fr. 1^a $(V^2 \ 103, \ 25)$, ἄνθρωπον γάρ φησι τών ἄλλων (sc. ζώων) διαφέρειν ὅτι μόνον ξυνίησι, τὰ δ' ἄλλα αἰσθάνεται μέν, οὐ ξυνίησι δέ.

Returning now to fr. 41 after a considerable détour, we naturally pause again before the phrase $\epsilon \pi i \sigma \tau a \sigma \theta a \gamma \nu \omega \mu \eta \nu$, which is the real crux. Scholars appear to be fairly unanimous in holding that, whether it means "Vernunft," "Geist," or "thought," $\gamma \nu \omega \mu \eta \nu$ is an accusative of the external object, being, in fact, the divine entity which rules the world. Heraclitus $\delta \kappa \nu \kappa \eta \tau \eta s$ does not much encourage fine distinctions, but to me this interpretation seems to yield a Stoic rather than a Heraclitean thought. In obvious reminiscence of our fragment and of fr. 32, $\epsilon \nu \tau \delta \sigma \sigma \phi \delta \nu \mu \omega \nu \nu \nu \lambda \epsilon \gamma \epsilon \sigma \theta a \iota \delta \epsilon \delta \epsilon \iota \kappa a \iota \epsilon \theta \epsilon \lambda \epsilon \iota$ Zηνδs ὄνομa, Cleanthes, H. in Iov. 30 could say,

δòs δè κυρησαι

γνώμης, ή πίσυνος σύ δίκης μέτα πάντα κυβερνậς.

But Cleanthes was clearly writing from a different, and a later, point of view, for which the $o\dot{v}\kappa \ \epsilon \theta \epsilon \lambda \epsilon \iota$ of Heraclitus had no real

significance. Following him and having regard to Antipho Soph. fr. 1 (V² 591, 18, $\gamma\nu\omega\mu\eta\gamma\nu\nu\omega\sigma\kappa\epsilon\iota$, and V² 592, 4, $\gamma\nu\omega\mu\eta\nu\omega\sigma\sigma\iota$) one might incline to propose to emend $\gamma\nu\omega\mu\eta\nu$ and read $\gamma\nu\omega\mu\eta\nu\dot{\epsilon}\pi\iota\sigma\tau\alpha\sigma\theta\iota$ in Heraclitus. I should regard that, however, as an error; for I hold that $\gamma\nu\omega\mu\eta\nu$ is an accusative of the inner object. In other words, $\dot{\epsilon}\pi\iota\sigma\tau\alpha \sigma\theta\iota\iota\gamma\nu\omega\mu\eta\nu$ is a periphrasis for $\gamma\iota\nu\omega\sigma\kappa\epsilon\iota\nu$. In the time of Heraclitus $\dot{\epsilon}\pi\iota\sigma\tau\alpha\sigma\theta\iota\iota$ had not yet acquired the technical sense which it later bore in philosophical prose: in fr. 57, $\tau\sigma\partial\tau\sigma\nu\dot{\epsilon}\pi\iota\sigma\tau\alpha\mu\tau\iota\iota\pi\lambda\epsilon\hat{\epsilon}\sigma\tau\iota\epsilon\dot{\iota}\delta\epsilon\nu\iota\iota$, it means to "fancy"; in fr. 19, $\dot{\epsilon}\kappa\sigma\partial\sigma\iota\iota$ oùther $\dot{\epsilon}\pi\iota\sigma\tau\dot{\epsilon}\mu\epsilon\nu\iota$ to "be skillful." The latter sense is common from Homer onward, the former in Herodotus. It is not surprising, therefore, that Heraclitus should wish to reinforce it with a cognate substantive. A similar turn recurs in Ion of Chios, fr. 4 (V² 222, 28 sq.),

> ώς ό μέν ήνορέη τε κεκασμένος ήδε και αίδοι και φθίμενος ψυχη τερπνον ἕχει βίοτον, εἴπερ Πυθαγόρης ἐτύμως ὁ σοφὸς περι πάντων ἀνθρώπων γνώμας ἤδεε κἀξέμαθεν.

Here Diels, whose emendation, $\ddot{\eta}\delta\epsilon\epsilon$ for $\epsilon\tilde{\iota}\delta\epsilon$ I heartily approve, renders $\gamma\nu\omega\mu\alpha_s\,\ddot{\eta}\delta\epsilon\epsilon\,\kappa\dot{\alpha}\xi\epsilon\mu\alpha\theta\epsilon\nu$ with "Einsichten erworben und erforscht hat." I believe we have a sort of hysteron proteron, and that Ion (for, herein differing from Diels, I believe the verses are his) meant "if Pythagoras was well informed and really knew whereof he spoke." This interpretation of Ion's phrase is proved correct beyond a doubt by Theognis, 59,

> ἀλλήλους δ' ἀπατῶσιν ἐπ' ἀλλήλοισι γελῶντες, οὕτε κακῶν γνώμας εἰδότες οὕτ' ἀγαθῶν.

The couplet was reproduced with slight modifications by an unintelligent imitator, Theognis 1113,

> ἀλλήλους δ' ἀπατῶντες ἐπ' ἀλλήλοισι γελῶσιν, οὕτ' ἀγαθῶν μνήμην εἰδότες οὕτε κακῶν.

Here we must without doubt adopt Hecker's emendation $\gamma\nu\omega\mu\eta\nu$ for $\mu\nu\eta\mu\eta\nu$. The imitator did not perceive the true significance of the original, which sought to hold up to scorn the blissful Edenic ignorance of good and evil characteristic of the new-made lords of Megara, who but recently, clad in goat-skins, lived like pasturing deer in the wilds without the city walls, but now in the city light-heartedly hood-wink one another. Clearly $\gamma\nu\omega\mu\alpha\beta$ είδέναι occurs in the LXX. account

of Eden, Gen. 2. 9, τὸ ξύλον τοῦ εἰδέναι γνωστὸν καλοῦ καὶ πονηροῦ, where, but for the confirmation of the MS. text by Philo Jud. 1. 55, 27, one might be inclined to suspect that $\gamma\nu\omega\sigma\tau\delta\nu$ was a corruption of $\gamma \nu \hat{\omega} \sigma \iota \nu$ or $\gamma \nu \dot{\omega} \mu \eta \nu$. If Ion's phrase reminds us of such Homeric locutions as $\nu o \eta \mu a \tau a \eta \delta \eta$ (β 121) and $\mu \eta \delta \epsilon a o \delta \epsilon$ (Σ 363), we find something closely analogous to that of Heraclitus in Plato, Apol. 20 E, où $\gamma \dot{a} \rho \delta \dot{\eta}$ έγωγε αὐτὴν (sc. τὴν σοφίαν) ἐπίσταμαι. In this last phrase, however, the comparison with 20 D, κινδυνεύω ταύτην είναι σοφός, may suggest that Plato had in mind the old force of $\epsilon \pi i \sigma \tau a \sigma \theta a \iota$, "be skillful." However, Theognis 564, $\sigma o \phi i \eta \nu \pi \hat{a} \sigma a \nu \dot{\epsilon} \pi i \sigma \tau \dot{a} \mu \epsilon \nu o \nu$, has the same construction. Cp. ibid. 1157. If, then, we so interpret $i\pi i\sigma\tau a\sigma\theta a\iota$ $\gamma \nu \dot{\omega} \mu \eta \nu$, we cannot take the relative $\dot{\delta} \tau \dot{\epsilon} \eta$ so closely with $\gamma \nu \dot{\omega} \mu \eta \nu$ as the ordinary view requires. I should rather say that $\delta \tau \epsilon \eta$ was roughly equivalent to $\eta \gamma \epsilon$, quippe quae, as $\delta \sigma \tau \iota s$ in fr. 57 means ut pote qui, and render the fragment somewhat as follows: "One thing only is wisdom: to get Understanding: she it is that pervades all things and governs all."

V^2 69, 2. Fr. 48, τ $\hat{\omega}$ οὖν τόξ ω ὄνομα βίος, ἕργον δὲ θάνατος.

Diels, Die Anfänge der Philologie bei den Griechen, Neue Jahrbücher, xxv (1910), I. Abteilung, p. 3, says, "Der Gleichklang der Worte Bios (Pfeil) und Bios (Leben) war ihm ein äusseres Zeichen für seine Lehre, dass die Gegensätze Leben and Tod im Grunde eins seien." Zeller I, 640, n. 2, expresses himself in much the same way. I have no desire to controvert this interpretation, so far as it goes; but it seems to me that the words of Heraclitus imply much more. In V³ Diels properly refers to Hippocrates, $\Pi \epsilon \rho i \tau \rho o \phi \hat{\eta} s, 2 (V^2 86, 1 \text{ sq.}), \tau \rho o \phi \hat{\eta}$ ού τροφή, ην μη δύνηται, ού τροφη τροφή, ην οιόν τε η τρέφειν · ούνομα τροφή, ἕργον δὲ οὐχί· ἕργον τροφή, οὕνομα δὲ οὐχί. With this passage of undoubtedly Heraclitean origin we should take fr. 37, sues caeno, cohortales aves pulvere vel cinere lavari; for the thought apparently is that mud and dust are not $\partial \nu \partial \mu \alpha \tau i$ water, but are $\xi \rho \gamma \omega$ identical with it. Fr. 13, $\delta\epsilon\hat{\imath} \gamma \dot{a}\rho \tau \dot{o}\nu \chi a\rho (\epsilon\nu\tau a \mu \eta \tau \epsilon \dot{\rho} \upsilon \pi \hat{a}\nu \mu \eta \tau \epsilon a \dot{\upsilon} \chi \mu \epsilon \hat{\imath}\nu \mu \eta \tau \epsilon \beta o \rho \beta o \rho \phi$ χαίρειν καθ' Ήράκλειτον, where βορβόρω χαίρειν alone seems to belong to Heraclitus, may conceivably have reference to the same problem, the philosopher meaning to imply that we should call things and men by names conformable to their $\epsilon_{\rho\gamma\sigma\nu}$: by their fruits ye shall know them! Plotinus Enn. 1. 6. 6, $\epsilon \sigma \tau i \gamma \alpha \rho \delta \eta$, $\delta s \delta \pi \alpha \lambda \alpha i \delta s \lambda \delta \gamma \sigma s$, $\kappa \alpha i \eta$ σωφροσύνη και ή ανδρεία και πασα αρετή κάθαρσις και ή φρόνησις αὐτή·διὸ καὶ αἱ τελεταὶ ὀρθῶs αἰνίττονται τὸν μὴ κεκαθαρμένον καὶ eἰs [an ἐν?] ἄδου κείσεσθαι έν βορβόρω, ὅτι τὸ μὴ καθαρὸν βορβόρω διὰ κάκην φίλον · οἶα δὴ

καὶ ὖες, οὐ καθαραὶ τὸ σῶμα, χαίρουσι τῶ τοιούτω, obviously glancing at fr. 13, suggests the possibility that Heraclitus used the words in connection with a discussion of the mysteries, with the intent of which he seems to have been satisfied, while he denounced their forms. Thus. fr. 5, καθαίρονται δ' άλλως αίματι μιαινόμενοι οἶον εί τις πηλόν έμβας $\pi\eta\lambda\hat{\omega}$ an avisor, we find a context in which he may have distinguished between the form and the substance, the övoµa and the $\xi_{\rho\gamma\sigma\nu}$. Be that as it may, there is abundant evidence that Heraclitus had grasped the fruitful principle that the true nature of a thing is to be understood in relation to its function or $\xi_{\rho\gamma\sigma\nu}$. We are familiar enough with his interest in etymologies, which reveals the desire to detect the true meaning of objects in the derivation of their names; but the study of homonyms, which our fragment reveals, almost necessarily involved a corresponding attention to synonyms, in which words of very different origin and etymology are shown to have a The test of identity or difference of meaning common meaning. Heraclitus found in the $\ell \rho \gamma o \nu$ of the thing. Plato, in a passage clearly under the influence of Heraclitus, Crat. 394 A sq., develops this twofold principle, which underlies the study of homonyms and synonyms, referring to the law of uniformity in nature, in accordance with which like begets like, and concludes therefrom that, as the physician recognizes drugs by their physiological action ($\delta i \nu \alpha \mu \iota s = \check{\epsilon} \rho \gamma o \nu$), not allowing himself to be deceived by their several disguises, so the philosopher must apply the same name to parent and offspring, or at any rate he must learn to detect the identity of concepts by whatever names they may go. Plato is obviously developing ideas derived from Heraclitus, partly such as are expressed in the fragments above cited, partly those of fr. 67, which we shall presently discuss more at length. In Tim. 50 A-51 B Plato combines in a highly suggestive way Heraclitean and Eleatic concepts, very much as he develops the law of uniformity, mentioned in the Cratylus, into the principle of interaction ($\pi o \iota \epsilon i \nu \kappa a \iota \pi a \sigma \chi \epsilon \iota \nu$) in Gorg. 476 B sq. In the living tissue of so vital a tradition as Greek philosophy presents we expect to find continuous developments of this kind. What is more difficult is the task of discriminating the stages marked by the individuals who contributed to the total result. In regard to the particular question with which we are now concerned, it is clear that Heraclitus and the Heracliteans laid the foundations for the Socratic procedure of definition by noting the essential importance of the $\epsilon_{\rho\gamma\sigma\nu}$ in determining the meaning of a concept. It was Socrates, however, who elaborated the method of definition on the basis of dialectic, thus in turn laying the foundations of the science of logic.

PROCEEDINGS OF THE AMERICAN ACADEMY.

∇² **69, 10.** Fr. 50, 'Ηράκλειτος μέν οὖν <ἕν> φησιν εἶναι τὸ πâν διαίρετον ἀδιαίρετον, γενητὸν ἀγένητον, θνητὸν ἀθάνατον, λόγον αίῶνα, πατέρα υἰόν, θεὸν δίκαιον· οὐκ ἐμοῦ, ἀλλὰ τοῦ λόγου ἀκούσαντας ὁμολογεῖν σοφόν ἐστιν ἕν πάντα εἶναι ὁ 'Ηράκλειτός φησι.

It is agreed that the authentic words of Heraclitus begin with our $\dot{\epsilon}\mu o \hat{v}$: what precedes we owe to Hippolytus, who obviously modeled his introductory statement on fr. 67. The comparison of the two passages shows that Bergk's $\langle \hat{\epsilon} \nu \rangle$, which Diels adopts, is unneces-The predicates of $\tau \delta \pi \hat{a} \nu$ are, as one sees at a glance, arranged sarv. in contrasted pairs. In the fourth pair, $\lambda \dot{\sigma} \gamma \sigma \sigma$ is of course the intelligible principle, virtually the $\kappa \delta \sigma \mu os \nu o \eta \tau \delta s$, opposed to alw which is the $\kappa \delta \sigma \mu \sigma s$ aloght of the next pair, $\pi \alpha \tau \epsilon \rho \alpha \nu \delta \nu$, is of course of Christian origin. Apparently the last, $\theta \epsilon \delta \nu \delta i \kappa a \iota o \nu$, has puzzled Professor Diels; for he now (V^3) proposes to insert [addikov] after dikalov. I long ago saw that this pair was suggested to Hippolytus or his source by Plato, Crat. 412 C-413 D, but had taken for granted that this was a matter of common knowledge and not worthy of special notice, until Diels's note undeceived me. I observe that Otto Gilbert, Griech. *Religionsphilosophie*, p. 62, n. 1, also noticed the connection. He there proposes a different interpretation of $ai\omega\nu$, but his suggestion I take to be too clearly mistaken to require refutation. In reference to $\theta\epsilon \partial \nu$ δίκαιον, it ought to be said that Hippolytus possibly wrote διαϊόν (= $\eta \lambda \iota_{0\nu}$), and that $\delta \iota_{\kappa \alpha \iota_{0\nu}}$ may be due to the copyist; but there is no sufficient justification for making a change in the text. Diels is probably right in adopting Miller's elval for the eldeval of Par.; but είδέναι may possibly have been originally a gloss on $\delta\mu$ ολογε $i\nu$; for if όμολογείν is sound it must be interpreted here, as in fr. 51, with reference to Heraclitean etymology, as "sharing in the (a) common λόγος."

∇² 71, 15. Fr. 67, δ θεδς ἡμέρη εὐφρόνη, χειμών θέρος, πόλεμος εἰρήνη, κόρος λιμός (τἀν αντία ἅπαντα·οὗτος δ νοῦς), ἀλλοιοῦται δὲ ὅκωσπερ <πῦρ>, ὅπόταν συμμιγῆ θυώμασιν, ὀνομάζεται καθ' ἡδονὴν ἐκάστου.

This is the text of Diels. I hope to make it clear that it is not correct, and to show also what Heraclitus wrote and what he meant. In order to understand and reconstruct this fragment we must compare two passages from Plato, in which he obviously alludes to it. Crat. 394 A, $o\dot{v}\kappa o\hat{v}\nu$ $\kappa a\hat{\iota} \pi\epsilon\rho\hat{\iota} \beta a\sigma\iota\lambda\epsilon\omega s \dot{o} a\dot{v}\tau \delta s$, $\lambda \delta\gamma \sigma s$; $\dot{\epsilon}\sigma\tau a\iota \gamma d\rho \pi \sigma\tau\epsilon \dot{\epsilon}\kappa$ $\beta a\sigma\iota\lambda\epsilon\omega s$, $\beta a\sigma\iota\lambda\epsilon\omega s$, $\kappa a\hat{\iota} \dot{\epsilon} \dot{\xi} \dot{a}\gamma a\theta o\hat{v} \dot{a}\gamma a\theta \delta s$, $\kappa a\hat{\iota} \dot{\epsilon}\kappa \kappa a\lambda o\hat{v} \kappa a\lambda \delta s$, $\kappa a\hat{\iota} \tau a\lambda\lambda a$

πάντα ούτως, έξ έκάστου γένους έτερον τοιούτον έκγονον, έαν μή τέρας γένηται· κλητέον δη ταὐτὰ ὀνόματα. ποικίλλειν δὲ ἔξεστι ταῖς συλλαβαῖς, ὥστε δόξαι ἂν τῷ ἰδιωτικῶς ἔχοντι ἕτερα εἶναι άλλήλων τὰ αὐτὰ ὄντα· ὥσπερ ἡμῖν τὰ τῶν ἰατρῶν φάρμακα χρώμασιν καὶ ὀσμαῖς πεποικιλμένα ἄλλα φαίνεται τὰ αὐτὰ ὄντα, τῷ δέγε ἰατρῷ, ἅτε τὴν δύναμιν τῶν φαρμάκων σκοπουμένω, τὰ αὐτὰ φαίνεται, καὶ οὐκ ἐκπλήττεται ὑπὸ τῶν προσόντων. ούτω δέ ίσως και ό έπιστάμενος περί όνομάτων την δύναμιν αὐτῶν σκοπεῖ, καὶ οὐκ ἐκπλήττεται εἴ τι πρόσκειται γράμμα ἢ μετάκειται ή ἀφήρηται, ή καὶ ἐν ἄλλοις παντάπασιν γράμμασίν ἐστιν ἡ τοῦ ὀνόματος δύναμις. ὥσπερ δ νυνδή ἐλέγομεν, "'Αστυάναξ" τε καὶ "Έκτωρ" οὐδέν των αύτων γραμμάτων έχει πλήν τοῦ ταῦ, ἀλλ' ὅμως ταὐτὸν σημαίνει. καὶ " ᾿Αρχέπολίς" γε τῶν μὲν γραμμάτων τί ἐπικοινωνεῖ; δηλοῖ δὲ ὅμως τὸ αὐτό· καὶ ἄλλα πολλά ἐστιν ἃ οὐδὲν ἀλλ' ἢ βασιλέα σημαίνει· καὶ άλλα γε αὖ στρατηγόν, οἶον "[°]Αγις" καὶ "Πολέμαρχος" καὶ "Εὐπόλεμος". καὶ ἰατρικά γε ἕτερα, "'Ιατροκλῆς" καὶ "'Ακεσίμβροτος"· καὶ ἕτερα äν ίσως συχνà εύροιμεν ταῖς μέν συλλαβαῖς καὶ τοῖς γράμμασι διαφωνοῦντα, τη δέ δυνάμει ταὐτὸν φθεγγόμενα. The general connection of this passage with the Heraclitean doctrine of the $\epsilon_{\rho\gamma\sigma\nu}$ was noted above in the discussion of fr. 48. The $\delta i \nu \alpha \mu i s$ or specific physiological action of the drug is compared to the $\delta i \nu \alpha \mu \mu$ s of a word, its "force" or meaning. The identity of meaning in words that are different ($\delta\iota a\phi\omega vo\hat{\nu}\nu\tau a$, $\tau \dot{a}\nu a\nu\tau i a$ $\ddot{a}\pi a\nu\tau a$), and the methods employed to produce variation $(\pi o \iota \kappa i \lambda \lambda \epsilon \iota \nu, \dot{a} \lambda \lambda o \iota o \hat{\nu} \tau a \iota)$, — these are the themes common to Heraclitus and Plato. We naturally think of Heraclitus, fr. 15, $\omega v \tau \delta s \delta \epsilon$ 'Aldys kal $\Delta i \delta v v \sigma \sigma s$, and fr. 57, $\delta \sigma \tau i s \eta \mu \epsilon \rho \eta v$ kal $\epsilon v \delta \rho \delta v \eta v$ ούκ έγίνωσκεν · έστι γάρ έν. The second passage from Plato, to which I referred above, is Tim. 49 sq., where the relation of the elements to the $\delta\epsilon\xi a\mu\epsilon\nu\eta$ or the $\epsilon\kappa\mu a\gamma\epsilon\hat{\iota}o\nu$ is under discussion. It will suffice for our purpose to quote a sentence from 50 E, $\delta_{i\delta}$ kal $\pi \dot{a} \nu \tau \omega \nu \dot{\epsilon} \kappa \tau \dot{\delta} s$ είδων είναι χρεών τὸ τὰ πάντα ἐκδεξόμενον ἐν αὐτῷ γένη, καθάπερ περὶ τὰ άλείμματα δπόσα εὐήδη τέχνη μηχανῶνται πρῶτον τοῦτ' αὐτὸ ὑπάρχον, ποιοῦσιν ὅτι μάλιστα ἀώδη τὰ δεξόμενα ὑγρὰ τὰς ὀσμάς· ὅσοι τε ἕν τισιν των μαλακών σχήματα απομάττειν έπιχειροῦσι, τὸ παράπαν σχήμα οὐδέν ἕνδηλον ὑπάρχειν ἐῶσι, προομαλύναντες δὲ ὅτι λειότατον ἀπεργάζονται. Plato here employs two comparisons to illustrate the relation of the substratum to the elemental forms, borrowing one from the manufacture of unguents, the other from the art of moulding figures in a matrix. The first of these is obviously similar to that above quoted from the Cratylus, and was repeated by Lucret. 2, 847 sq.

PROCEEDINGS OF THE AMERICAN ACADEMY.

sicut amaracini blandum stactaeque liquorem et nardi florem, nectar qui naribus halat, cum facere instituas, cum primis quaerere par est, quoad licet ac possis reperire, inolentis olivi naturam, nullam quae mittat naribus auram, quam minime ut possit *mixtos in corpore odores* concoctosque suo contractans perdere viro, propter eandem rem debent primordia rerum non adhibere suum gignundis rebus odorem, etc.

Heeding the suggestions afforded by these passages from Plato and Lucretius, which seem to me clearly to reproduce, however freely, the thought of Heraclitus in our fragment, it should be possible with considerable certainty to restore the text and to determine its meaning. It is obvious that in the Cratylus Plato slightly changed the figure, substituting drugs for unguents, because of the advantage of thus being able to appeal to the expert knowledge of the physician. He may have been influenced also by certain Heraclitean elements in the medical literature, such as we find in Hippocrates $\Pi \epsilon \rho i \delta \iota \alpha i \tau \eta s$ and $\Pi \epsilon \rho i \tau \rho o \phi \hat{\eta} s$. At all events, it is clear that $\langle \pi \hat{v} \rho \rangle$, which Diels has adopted from the conjecture of Dr. Thomas Davidson, and <oivos>, which Bergk proposed, are alike inadmissible. The latter part of the fragment and the use of $\theta i \omega \mu a$, which Hesychius defines with $\mu i \rho o \nu$ and $\[action a \rho \omega \mu \alpha, point clearly to the conclusion that Heraclitus, as we$ should infer from Plato and Lucretius, referred to an unguent. The instances of $\theta i \omega \mu a$ (Herod. 2. 86; Lucian, De Dea Svra, 8 and 46) refer to unguents. If one or the other of the passages in Lucian should be doubtful, there can be no question in regard to Hippocr. Γυναικείων β, 209 (8, 404 L.), έψειν τὰ θυώματα α ές τὸ μύρον ἐμβάλλεται. with which compare ibid. 202 (8, 386 L.) and 206 (8, 398 L.) In the making of unguents (see Blümner, Technologie und Terminologie der Gewerbe und Künste², I., 359 sq.), the neutral base, as well as the product resulting from the union of aromatic substances with it, was called $\mu \psi \rho \rho \nu$ or $\ell \lambda a \rho \nu$. The finished product bore a variety of names determined by the volatile ingredients. Theophrastus, $\Pi \epsilon \rho i \, \delta \sigma \mu \hat{\omega} \nu$, gives ample information, from which we may quote a few sentences. V. 25, πρός ἕκαστον δὲ τῶν μύρων ἐμβάλλουσι τὰ πρόσφορα τῶν ἀρωμάτων, οἶον εἰς μὲν τὴν κύπρον καρδάμωμον, ἀσπάλαθον ἀναφυράσαντες VI. 27, ἄπαντα δὲ συντίθενται τὰ μύρα τὰ μέν ἀπ' ἀνθῶν τω εὐώδει. τὰ δὲ ἀπὸ φύλλων τὰ δὲ ἀπὸ κλωνὸς τὰ δ' ἀπὸ ῥίζης τὰ δ' ἀπὸ ξύλων τὰ δ' ἀπὸ καρποῦ τὰ δ' ἀπὸ δακρύων. μικτὰ δὲ πάνθ' ὡς εἰπεῖν. In inten-

tion, therefore, the conjecture of Bernays, $\sigma \nu \mu \mu \gamma \hat{\eta} < \theta b \omega \mu a > \theta \nu \omega \mu a \sigma \iota$, was better than either of those which we noticed above; but Diels is right in assuming that the desiderated word is to be supplied after $\delta \kappa \omega \sigma \pi \epsilon \rho$. The only point in favor of $\langle \pi \hat{\nu} \rho \rangle$ is that its omission can so easily be explained; but with almost equal ease we can account for the loss of $\langle \mu \dot{\nu} \rho \rho \nu \rangle$, which is obviously required by the sense and by the Platonic and Lucretian parallels.

But we must now return to the earlier part of the fragment. The words τάναντία απαντα·ούτος δ νοῦς have been a stumbling-block. Bywater and Diels bracket them, since they can make nothing of them. Mullach accomplished the same result by making two fragments instead of one, and omitting the troublesome words. But a reference to the passage from the Cratylus should prove beyond question that they belong just where they stand; only one slight change is required, viz, wurds for ouros, as Bergk perceived. He says, Kleine Philol. Schriften, II. 86, n. 4, "Ceterum etiam verba illa existimo, quae ita videntur corrigenda: ò $\theta\epsilon$ òs . . . $\kappa \delta \rho os$, $\tau \dot{a} \nu a \nu \tau i a$ ἅπαντα· ωὑτὸς νόος· ἀλλοιοῦται δέ, ὅκωσπερ οἶνος κτλ." Unfortunately Bergk did not interpret his proposed text; but judging by his punctuation and the absence of any remark about the force of voos, I venture to suggest that what he had in mind was something like this: "Gott ist... Überfluss und Hunger, mit einem Worte, alle Gegen-Es ist derselbe Geist," usw. If this suggestion does him sätze. justice, it will be seen that he did not really anticipate my proposal except in regard to the change of $o\tilde{v}\tau os$ into $\omega\dot{v}\tau \delta s$; and working with the text of Diels, who did not even record the proposal, I did not come upon his emendation until I had reached the same conclusion independently and by a different route. As a matter of fact, it was the passage from the Cratylus which disclosed the connection of ideas and led me to the obviously correct text and interpretation; for I saw at once that $vo\hat{v}_s$ had no reference whatever to $\theta\epsilon \phi s$ and did not mean "Geist," but, as in Herod. 7. 162, outos de d voos tou pήματοs, signified "sense" or "meaning." But, this point once cleared up, it followed at once that we must read wurds for ouros, and that τάναντία $a\pi$ αντα did not merely add a generalization to sum up the bill of particulars which precedes. In short, $\tau \dot{a} \nu a \nu \tau i a$ ä $\pi a \nu \tau a$ is the plural form of $\tau o \dot{\nu} a \nu \tau i o \nu \ddot{a} \pi a \nu$, which occurs, Plato, Polit. 310 D, as a variant for the more usual phrase $\pi \hat{a} \nu \tau o \dot{\nu} a \nu \tau i o \nu$; cp. Xen. Mem. 3. 12. 4 and (for the adverbial force of $\pi \hat{a}_s$ or $\# \pi \alpha s$) Plato. Protag. 317 B.

PROCEEDINGS OF THE AMERICAN ACADEMY.

Restoring to Heraclitus what rightfully belongs to him, we should therefore write the fragment thus: $\delta \theta \epsilon \delta s \dot{\eta} \mu \epsilon \rho \eta \epsilon \delta \phi \rho \delta \nu \eta$, $\chi \epsilon \mu \omega \nu \theta \epsilon \rho \sigma s$, $\pi \delta \lambda \epsilon \mu \sigma s \epsilon \ell \rho \eta \nu \eta$, $\kappa \delta \rho \sigma \sigma \lambda \mu \mu \delta s \cdot \tau \dot{a} \nu a \nu \tau i a \ddot{a} \pi a \nu \tau a$, $\dot{\omega} \nu \tau \delta s \dot{o} \nu \sigma \delta s \cdot \dot{a} \lambda \lambda \sigma \sigma \delta \tau a \nu \sigma \nu \mu \mu \gamma \eta \theta \upsilon \omega \mu a \sigma \iota \nu$, $\dot{\delta} \nu \sigma \mu \dot{a} \dot{s} \epsilon \tau a \iota \kappa a \theta' \dot{\eta} \delta \sigma \nu \eta \nu \dot{\epsilon} \kappa \dot{a} \sigma \tau \sigma \upsilon$. "God is day and night, winter and summer, war and peace, satiety and hunger,— opposites quite, but the sense is the same; he changes, however, just as the neutral base employed in making unguents, when it is mixed with volatile essences, receives a name in accordance with the odor of each."

In regard to the philosophical interpretation of the fragment, which thus assumes a rank of capital importance for the thought of Heraclitus, it is hardly necessary to say more at present, than that we must henceforth build upon the foundations laid by Plato, Tim. 48 E-52 C. Plato and Lucretius prove that the same thought lay at the core of the atomic theory, and it is evident that Heraclitus here touched one of the basic conceptions of metaphysics in so far as it is concerned with the relation of the One and the Many. We are therefore called upon to consider the questions which crowd upon us with sobriety and careful discrimination, unless we are to efface the mile-stones that mark the progress of speculation. Such an inquiry is, however, too far-reaching to admit of discussion in this connection.

The meaning, apparently missed by some scholars, is made clear by fr. 117, our $\epsilon \pi a t \omega \nu \delta \kappa \eta \beta a t \nu \epsilon \iota$. He forgets whither he is going.

V² 73, 14. Fr. 77, ψυχησι... τέρψιν ή θάνατον ύγρησι γενέσθαι.

It seems very probable that we are here dealing, if one may so express it, with a conflate text; that is to say, two utterances of Heraclitus, otherwise essentially identical, but differing in this, that one related to $\tau \epsilon \rho \psi_{LS}$, the other to $\theta \delta \nu \alpha \tau \sigma s$, appear to have been merged in one. Either statement, taken by itself, is entirely intelligible; but it is improbable that Heraclitus combined them in the manner of this 'fragment.'

V² **73, 19.** Fr. 78, ήθος γàρ ἀνθρώπειον μèν οὐκ ἔχει γνώμας, θείον δè ἔχει.

The word $\eta \theta \sigma s$ is difficult and improbable. I suspect that we should write $\xi \theta \nu \sigma s$; cp. Eurip. Orest. 976,

ιώ ιώ, πανδάκρυτ' ἐφαμέρων ἔθνη πολύπονα.

The iambic movement of the fragment is obvious, and the position of $\mu \epsilon \nu$ appears somewhat forced. One is tempted to write the sentence as verse,

ἔθνος μὲν ἀνθρώπειον οὐ γνώμας ἔχει, θεῖον δ' ἔχει.

This may, of course, be nothing more than the work of chance; but the entire cast of the sentence suggests that we are dealing with verse converted into prose. Now we know that there were those who versified the philosophy of Heraclitus. One of their number, Scythinus, a writer of the fourth century, is known by name; and one of the fragments of Scythinus (fr. 2, V² 86, 22 sq.) has come down to us reconverted into prose, which Wilamowitz has again rendered in verse. I do not suggest, though it is possible, that we have before us another reconverted version of Heraclitus by Scythinus; for the cases of Cleanthes, whose Stoic verses are in part little more than paraphrases of Heraclitus, and of 'Epicharmus,' among whose fragments there are some which reproduce the thought of Heraclitus as others do that of Plato, caution us to avoid hasty conclusions. Nevertheless, I incline to think that fr. 78 is in fact a thinly disguised prose rendering of a verse original; for there are at least two other 'fragments' of Heraclitus (80 and 100) whose form suggests a versified original. As it is best to discuss them separately, I will add only that one of them, like fr. 78, is quoted by Origen Against Celsus. If my suggestion be approved by scholars, an interesting question arises, to wit, how accurately the versifier, if he was actually trying to reproduce the thought of Heraclitus, as Celsus or his source supposed, succeeded in rendering it. In the case of fr. 78, it is a nice question whether Heraclitus would have said what is here imputed to him. Origen seems to be clearly right in interpreting $\gamma \nu \dot{\omega} \mu as$ with σοφία; but Heraclitus, whose doctrine of $\tau \dot{o}$ σοφόν we considered above in the note on fr. 41, although unsparing in his denunciation of the stupidity of the crowd, clearly believed that he had attained to wisdom. We naturally think of him as declaring with the Hebrew prophet that he alone was left.

We may note that fr. 78 seems to have served as a model for the spurious fragment of Epicharmus, 57, 7, which Diels (V² 99, 4) writes thus:

ού γάρ άνθρωπος τέχναν τιν' εύρεν, ο δέ θεός τοπάν.

PROCEEDINGS OF THE AMERICAN ACADEMY.

In the same way Epicharmus, fr. 64 (V² 100, 5 sq.), likewise spurious,

εἰμὶ νεκρός · νεκρός δὲ κόπρος, γῆ δ' ἡ κόπρος ἐστίν
 εἰ δ' ἡ γῆ θεός ἐστ', οὐ νεκρός, ἀλλὰ θεός,

glances at Heraclitus, fr. 96, νέκνες γὰρ κοπρίων ἐκβλητότεροι, and also at the anecdotes relative to the manner of his death, V² 54, 29 sq., and to the anecdote about the oven, where also there were gods (V² 58, 36 sq.). It seems altogether likely that the case of Heraclitus is in this a close parallel to that of Pythagoras, that myth soon began to weave legends about his name, and that forgeries sprang up which were supported by other forgeries. For the relation of the late Pythagoreans to Heraclitus, see Norden, Agnostos Theos, p. 345, n. 1. The examples given above and to be discussed presently make it extremely probable that some of these were written in verse and current as adespota, becoming in time attached to various names, such as Epicharmus. Others went under the name of Heraclitus, and it is probably to them that the Vita in Suidas refers (V² 56, 46), ἕγραψε πολλà ποιητικῶs.

V² 73, 23. Fr. 80, εἰδέναι δὲ χρή τὸν πόλεμον ἐόντα ξυνόν, καὶ δίκην ἔριν, καὶ γινόμενα πάντα κατ' ἔριν καὶ χρεώμενα.

This fragment has been discussed times innumerable, more particularly with reference to the last word, which is conceded to be impossible. If the sentence be regarded as an authentic prose fragment of Heraclitus, we probably cannot do better than accept Schuster's conjecture, $\kappa \alpha \tau \alpha \chi \rho \epsilon \dot{\omega} \mu \epsilon \nu a$, and take it as complementary to $\gamma_{\iota\nu}\dot{\omega}\mu\epsilon\nu a$. Diels, however, has rightly refused to admit into his text any of the numerous substitutes proposed for $\chi\rho\epsilon\dot{\omega}\mu\epsilon\nu a$. First of all it should be noted that $\kappa a \gamma_{\iota\nu}\dot{\omega}\mu\epsilon\nu a \pi \dot{\alpha}\nu\tau a \kappa a \tau' \check{\epsilon}\rho\iota\nu$ does not look so much like an utterance of Heraclitus as like an attempt to summarize details; this impression is confirmed by fr. 8, Arist. Eth. Nic. 1155^b 4, 'Hράκλειτοs τὸ ἀντίξουν συμφέρον καὶ ἐκ τῶν διαφερόντων καλλίστην ἀρμονίαν καὶ πἀντα κατ' ἔριν γίνεσθαι, which is itself quite obviously not a verbatim quotation but a summary. Long ago I was struck by the similarity in thought between καὶ δίκην ἕριν, καὶ γινόμενα πἀντα κατ' ἔριν and Cleanthes, H. in Iov. 36,

δός δέ κυρήσαι γνώμης, ή πίσυνος σύ δίκης μέτα πάντα κυβερνậς,

and in a letter to Professor Diels I proposed instead of $\chi \rho \epsilon \dot{\omega} \mu \epsilon \nu a$ to read $\chi \rho \epsilon \dot{\omega} \nu \mu \dot{\epsilon} \tau a$, after Eurip. Herc. F. 20,

είθ' "Ηρας ὕπο

κέντροις δαμασθείς είτε τοῦ χρεών μέτα.

He replied that the anastrophe of $\mu \epsilon \tau a$ was impossible in prose. This is of course true, as I well knew, assuming that we are dealing with real prose. At that time, having nothing more definite than the vague impression that the diction and movement of certain fragments of Heraclitus were distinctly poetic, and the statement in the Vita of Suidas, which I then interpreted as referring in a general way to poetic diction, I dropped the matter, though I still felt that $\chi \rho \epsilon \dot{\omega} \nu \mu \dot{\epsilon} \tau a$ was probably the true reading. Recently Dr. Bruno Jordan, Archiv für Gesch. der Philos., 24 (1911), p. 480, has independently made the same suggestion. In view of the probability that in this 'fragment,' as in fr. 78, we have a versified version of Heraclitus reconverted into prose, I regard my emendation as all but certain. I do not think it feasible to recover the verse original throughout, because, as I indicated above, και γινόμενα πάντα κατ' έριν appears to be a summarizing formula: but it is easy to pick out parts of the sentence which fall almost without change into iambic verse:

ϵἰδέναι δὲ χρή
τὸν πόλεμον ὄντα ξυνόν
. καὶ δίκην ἔριν
. < <τοῦ> χρεών μέτα.

It must be said that the text of the fragment is not absolutely certain, as the Mss. of Origen Against Celsus read $\epsilon i \ \delta \epsilon \chi \rho \eta$ and $\delta i \kappa \eta \nu \epsilon \rho \epsilon i \nu$; but the emendations adopted by Diels and reproduced above are so obvious that we may with confidence make his text the basis of our study. Regarded in the light of the poetic tags which have just been noted, we have again a close parallel to the prose paraphrase of Scythinus, fr. 2; but I hazard no guess as to the author of the versified version.

V² 76, 12. Fr. 100, ώρας αἰ πάντα φέρουσι.

This fragment is preserved by Plutarch, who again alludes to it. The movement is clearly dactylic, and one may suspect that it formed part of an hexameter, though its brevity forbids dogmatic conclusions. In view of the experiments of Cleanthes it is not improbable that there were versions of certain Heraclitean sayings in heroic verse. It is, of course, possible that this fragment owes its rhythmical or metrical form to chance or to unconscious poetical influences not unnatural in the early stages of prose when verse was still the prevailing medium of artistic expression. This is perhaps the most probable explanation of the hexameter ending of fr. 5, $\theta \epsilon o \vartheta \delta' \eta \rho \breve{\omega} as o \varkappa \iota \iota \iota \dot{\epsilon} s \epsilon i \sigma \iota$, which I noted long ago and find referred to Homeric influence by Norden, Agnostos Theos, p. 88, n. 1. Dactylic movement, due to epic models, is much more easily thus accounted for than iambic or trochaic, such as have been noted above in fragments 78 and 80. Of the latter sort there is perhaps another example in fr. 120, quoted by Strabo, $\dot{\eta} o \vartheta s$ $\kappa a i \dot{\epsilon} \sigma \pi \dot{\epsilon} \rho a s \tau \dot{\epsilon} \rho \mu a \tau a \dot{\eta} \ddot{a} \rho \kappa \tau o s \kappa a i \dot{a} \nu \tau i o \nu \tau \eta s \ddot{a} \rho \kappa \tau o v \vartheta \rho o s a l \theta \rho i o \nu \Delta \iota \dot{o} s$. The general trochaic or iambic rhythm is at once apparent, and the close at least is faultless and strikingly suggestive of a trochaic verse. See infra, p. 714 sq. One may recast it into trochaics quite as easily as Wilamowitz did the second fragment of Scythinus, —

ήοῦς [possibly ἕω δέ] χἀσπέρας τέρματ' ἄρκτος κἀντί' ἄρκτου οὖρος αἰθρίου Διός.

V² 77, 11. Fr. 108, δκόσων λόγους ήκουσα, οὐδεὶς ἀφικνεῖται ἐς τοῦτο, ὥστε γινώσκειν ὅτι σοφόν ἐστι πάντων κεχωρισμένον.

This fragment has been much discussed; cp. Schuster, pp. 42, 44; Zeller, I. 629, n. 1. Gomperz proposed to bracket ὅτι σοφόν κτλ. as an interpolation. All those who retain the words regard them as an object clause, whatever interpretation they may put upon it. Diels identifies $(\tau \delta) \sigma \sigma \phi \delta \nu$ with God, and understands the fragment as declaring the divine transcendence. This view has naturally provoked vigorous protests; for it is incompatible with all that we otherwise know of the thought of Heraclitus. I think $\lambda \delta \gamma o \nu s$ is here used as Heraclitus uses $\lambda \delta \gamma \sigma$ of his own philosophic message or gospel: it refers to the Weltanschauungen of the great teachers and philosophers: for *houra* does not necessarily refer to actual hearing of the person who sets forth his views, but includes the reading (by himself or by a slave) of written records. The pregnant force of $\gamma_{i\nu}\omega\sigma\kappa\epsilon_{i\nu}$ was sufficiently explained above in the discussion of fr. 41. Heraclitus, then, says: "Of all those whose message regarding the nature of things it has been my fortune to learn about, not one has attained to the point of true knowledge." So much seems to be clear from a survey of the conception of knowledge which he is continually proclaiming. But, once we seize the import of his use of $\gamma \iota \nu \omega \sigma \kappa \epsilon \iota \nu$, it is equally clear that öτι is not "that"; it is causal, and the obvious conclusion to his sentence follows: "for wisdom is far removed from all" ("men" or "of them"). One may illustrate this use of κεχωρισμένον by a pas-

sage from Cleanthes quoted by Sext. Empir. 9. 90, $\omega \sigma \tau \epsilon$ où $\tau \epsilon \lambda \epsilon i \omega r$ $\zeta \tilde{\varphi} ov \delta$ $\ddot{a} v \theta \rho \omega \pi \sigma s$, $\dot{a} \tau \epsilon \lambda \dot{\epsilon} s$ $\delta \dot{\epsilon} \kappa a \dot{a} \pi \sigma \lambda \dot{v} \kappa \epsilon \chi \omega \rho \iota \sigma \mu \dot{\epsilon} v \sigma v \tau \sigma \tilde{v} \tau \epsilon \lambda \epsilon \dot{\epsilon} ov$. The questionable fragment of Philolaus, quoted by Diels, and the quotation from Philostratus ap. Euseb. P. E. 4. 13, $\dot{\epsilon} v \dot{\iota} \tau \epsilon \ \ddot{o} \nu \tau \iota \kappa a \dot{\epsilon} \kappa \epsilon \chi \omega \rho \iota \sigma \mu \dot{\epsilon} v \omega$ $\pi \dot{a} \nu \tau \omega v$, made by Norden, Agnostos Theos, 39, n. 3, afford but weak support for so unlikely a theory as that of Diels. In printing the fragment, I should place a colon between $\gamma \iota \nu \dot{\omega} \sigma \kappa \epsilon \iota v$ and $\ddot{\sigma} \tau \iota$. The sentence thus furnishes a new illustration of the difficulty, noted by Aristotle, of phrasing Heraclitus. Diels mentions, but does not adopt, my interpretation in V³.

V² 77, 19. Fr. 112, σωφρονείν ἀρετή μεγίστη, καὶ σοφίη ἀληθέα λέγειν καὶ ποιείν κατὰ φύσιν ἐπαΐοντας.

The Mss. here, as in fr. 116, show $\sigma\omega\phi\rho\sigma\nu\epsilon\hat{\nu}\nu$. Diels here substitutes $\tau \dot{o} \phi \rho o \nu \epsilon \hat{\iota} \nu$, there $\phi \rho o \nu \epsilon \hat{\iota} \nu$, in order to adapt the diction to that of Heraclitus. He renders: "Das Denken ist der grösste Vorzug, und die Weisheit besteht darin, die Wahrheit zu sagen und nach der Natur zu handeln, auf sie hinhörend." Besides changing $\sigma \omega \phi \rho o \nu \epsilon i \nu$ to $\tau \delta \phi \rho o \nu \epsilon i \nu$, he gives a forced rendering of $d\rho\epsilon\tau\eta$ and $\epsilon\pi a$ to $\nu\tau as$ which serves to conceal the obvious Stoic character of the saying. Again, there is no other instance of $\sigma o \phi i \eta$ in the supposedly genuine fragments of Heraclitus, who seems to have used $(\tau \dot{o}) \sigma \sigma \phi \dot{o} \nu$ instead: it does recur in fr. 129, which Diels reckons doubtful or spurious but others accept as genuine. Yet, granting that it is genuine, $\sigma o\phi i\eta$ there means something very different: it is, like $\pi o \lambda \nu \mu a \theta \epsilon i \eta$ and $\kappa a \kappa o \tau \epsilon \chi \nu i \eta$, a term of reproach. One who reads the sentence without bias will readily admit that $\dot{a}\rho\epsilon\tau\dot{\eta}$ means an ethical virtue. As for $\dot{a}\lambda\eta\theta\dot{\epsilon}a\lambda\dot{\epsilon}\gamma\epsilon\iota\nu$, one may perhaps defend it by citing the denunciation of the $\psi_{\epsilon\nu\delta\hat{\omega}\nu} \tau_{\epsilon\kappa\tau\sigma\nu\alpha s}$ καὶ μάρτυραs in fr. 28; but it is doubtful whether so obviously an ethical virtue would have counted as a mark of $\sigma o \phi i \eta$ in the days of Heraclitus. In opposition to this it may be said that 'A $\lambda \eta \theta \epsilon_{i} a$ was the ideal of the Greek philosophers from the beginning. True; but it was objective Truth which they sought, and not the virtue of truthfulness. The juxtaposition of $d\lambda\eta\theta\epsilon a \lambda\epsilon\gamma\epsilon\nu$ and $\pi o\iota\epsilon i\nu \kappa a\tau a \phi \iota \sigma \iota \nu$ does not suggest a reference to abstract or objective truth. Finally, ποιείν κατὰ φύσιν ἐπαΐονταs bears all the marks of Stoic doctrine; for it is hardly defensible to render $i\pi a io\nu \tau as$ with "auf sie hinhörend." The word has here, as in fr. 117, oùk $\epsilon \pi a \ddot{\iota} \omega \nu \delta \kappa \eta \beta a \dot{\iota} \nu \epsilon \iota$, the sense which it regularly bears in Plato, to wit, "knowing"; cp. Xen. Mem. 1. 1. 9, δαιμοναν δὲ καὶ τοὺς μαντευομένους ἅ τοῖς ἀνθρώποις οἱ θεοὶ μαθοῦσι διακρίνειν. The words then clearly mean "to act in accordance with nature consciously and with full knowledge." This thought is, however, in substance and in form entirely Stoic, corresponding in the ethical sphere to the injunction to submit willingly to Fate, in the religious sphere, as expressed in Cleanthes's lines to Fate. One may, of course, discover the germs of this view in genuine fragments of Heraclitus; but Diels's alterations in the text and his interpretation do not meet the reasonable objections long since urged by others to the genuineness of this fragment.

V² 78, 8. Fr. 116, ἀνθρώποισι πᾶσι μέτεστι γινώσκειν ἑωυτοὺς καὶ σωφρονεῖν.

This fragment, like the preceding, is derived from Stobaeus, and like it, too, has been by many regarded as spurious. As I have already stated, Diels writes $\phi \rho o \nu \epsilon \hat{i} \nu$ for $\sigma \omega \phi \rho o \nu \epsilon \hat{i} \nu$, in order to meet an obvious criticism. This procedure would be justifiable, however, only if the passage as a whole created a presumption in favor of Heraclitean authorship, which is supported solely by the lemma of Stobaeus. In fact all indications point to the period after Socrates. Whoever attributed the saying to Heraclitus doubtless did so in view of fr. 101, $\dot{\epsilon}$ διζησάμην $\dot{\epsilon}$ μεωυτόν, but the interpretation of the Delphic γνώθι σαυτόν as an injunction to recognize one's limitations and to occupy oneself with that which lies within one's proper scope and power, - this is, so far as we know, Socratic: he who would claim it for Heraclitus must assume the burden of proof. But no unbiased reader of our fragment will doubt that $\gamma_{\iota\nu}\omega\sigma\kappa\epsilon_{\iota\nu}$ $\dot{\epsilon}\omega\nu\tau\sigma\dot{\nu}s$ καὶ $\sigma\omega\phi\rho\sigma\nu\epsilon\hat{\iota}\nu$ was intended to express that precise thought. I cannot justify the changing of $\sigma\omega\phi\rho\sigma\nu\epsilon\hat{\nu}$ to $\phi\rho\sigma\nu\epsilon\hat{\nu}$, and cannot accept the fragment as genuine. Bywater was clearly right in marking both 112 and 116 as doubtful. Since they come to us from Stobaeus, who quotes them under widely different heads, it is plain that their assignment to Socrates is not due to a mere mistake in the lemmata of his text, but the error must be charged to his sources.

V² 78, 16. Fr. 120, ήοῦς καὶ ἐσπέρας τέρματα ἡ ἄρκτος καὶ ἀντίον τῆς ἄρκτου οὖρος aἰθρίου Διός.

In V³ Diels briefly notes my interpretation of $o\hat{v}\rho os$ $al\theta\rho iov \Delta i \delta s$ as "wind of heaven," which was proposed in my review of his *Herakleitos von Ephesos*², in Class. Philol., 5. p. 247; but he appears still to prefer his own suggestion that Heraclitus referred to Mt. Olympus. As I regard my proposal as almost certainly right, I offer here a few addi-

715

tional observations to supplement my former statement, which exigencies of space then compelled me to omit. For the meaning of $o\nu\rhoos$, "wind," I would refer to Schmidt's Synonymik. See also Bonitz, Index Aristotelicus, s. v. $\mu\rho\kappa\tau os$. It was common to say $\kappa a\lambda \pi\rho os \, \mu\rho\kappa \tau o\kappa \lambda \pi\rho \delta \nu o\tau o\nu$. The phrases employed by Herodotus in speaking of the cardinal points are especially interesting; I have made a complete list of them, and they seem to me to be decisive. I will refer, however, to but a few by way of illustration: 1.148, $\pi\rho\delta s \, \mu\rho\kappa\tau o\nu \, \tau\epsilon\tau\rho a\mu\mu\epsilon vos \ldots \pi\rho\delta s \, \epsilon\epsilon \omega \rho o\tau \kappa \alpha \lambda \rho \delta \sigma \nu$; 3. 102, $\pi\rho\delta s \, \mu\rho\kappa\tau o\nu \, \tau\epsilon \kappa \alpha \lambda \rho \delta \sigma \nu$; Cp. Hesiod, Theog. 378–82.

Though I do not accept the suggestion of Diels that the object $\Delta \iota$ is is Mt. Olympus, I will refer to a passage which might possibly be used to support it, to wit, Hipporr. $\Pi \epsilon \rho i \epsilon \beta \delta \delta \omega \nu$, 48 (9. 462 L.), Definitio autem superiorum partium et inferiorum corporis umbilicus. It would be interesting to know the Greek text: perhaps Helmreich or some other ransacker of medical manuscripts may yet recover it! It occurs in a part of the treatise much discussed of late; see Roscher, Über Alter, Ursprung und Bedeutung der hippokr. Schrift von der Siebenzahl, p. 37, n. 67, who of course, in relating this to his "Weltkarte," refers to the $\delta\mu\phi$ alos $\gamma\hat{\eta}s$ or θ alá $\tau\tau\eta s$, and believes that the writer had in mind (not Delphi, but) Delos or Teos. Mt. Olympus might well serve as a landmark to divide the "upper" or northern parts of the earth from the "lower" or southern; but it does not seem so suitable for a zero meridian. I doubt, moreover, whether Heraclitus had any "Greenwich" in mind: what he seems to have meant is merely this, that "east" and "west" are relative terms and are delimited by a north and south line drawn through any point that may be in question. Various special meridians, useful to the geographer and mariner, were recognized at a comparatively early date, as may be seen from Herodotus; but a zero meridian, so far as I know, was not thought of before the time of the Alexandrian geographers. For the suggestion of a possible verse original for the fragment, see above on fr. 100. This would readily account for the use of oupos in the sense of wind.

∇² 80, 10. Fr. 128, δαιμόνων ἀγάλμασιν εὕχονται οὐκ ἀκούουσιν, ὥσπερ ἀκούοιεν, οὐκ ἀποδιδοῦσιν, ὥσπερ οὐκ ἀπαιτοῖεν.

In regard to the text of this spurious fragment I agree with Diels, except that I would set a colon after $\dot{a}_{\kappa o \ell o \iota \epsilon \nu}$; from his interpretation I dissent, because it seems to me obviously at fault. In some unaccountable way he appears to have overlooked my note in Class. Philol. 5. p. 247, for he renders the text thus: "Sie beten zu den Götterbildern, die nicht hören, als ob sie Gehör hatten, die nichts zurückgeben, wie sie ja auch nichts fordern könnten," The saying is a close parallel to fr. 127, likewise spurious, in that it charges men with inconsistency in their dealings with the gods. Hence oùk àποδιδοῦσιν (= àποδιδόασιν; not the partic.!) answers to εὕχονται as ὥσπερ οὐκ àπαιτοῖεν answers to ὥσπερ ἀκούοιεν, and the meaning, as I said in my former note, is: "They make vows to the images of the gods, that hear not, as if they heard; they pay not their vows, as if they (the gods) required it not." Everyone can supply the necessary classical examples for εὕχονται, ἀποδιδοῦσιν, and ἀπαιτοῖεν. I will quote one from the LXX., Deuter. 23. 21, ἐὰν δὲ ϵὕχη ϵὐχὴν κυρίω τῷ θεῷ σου, οὐ χρονιεῖs ἀποδοῦναι αὐτήν, ὅτι ἐκζητῶν ἐκζητήσει κύριοs ὁ θεόs σου, καὶ ἕσται ἐν σοὶ àμαρτία.

[Hippocrates.]

V² 81, 36—82, 16. For this passage, see my Antecedents of Greek Corpuscular Theories, Harvard Studies in Class. Philol., 22 (1911), p. 148 sq. It is to this article, and not to "Class. Philol. 22. 158," that Diels should have referred V³ 106, 16, note.

c. 13. Epicharmus.

V² **91, 23.** Fr. 4. 6,

τὸ δὲ σοφὸν ἑ φύσις τόδ' οἶδεν ὡς ἔχει μόνα · πεπαίδευται γὰρ αὐταύτας ὕπο.

Diels renders, "Doch wie sich's mit dieser Weisheit verhält, das weiss die Natur allein. Denn sie hat's ganz von selbst gelernt." It is, perhaps, a matter of no great consequence, but I believe his translation rests on a misconception of $\tau \partial \sigma \sigma \phi \partial \nu \tau \delta \delta \epsilon$ and $\dot{\omega}s \check{\epsilon}\chi\epsilon\iota$. As to the former, it has little in common with $(\tau \partial) \sigma \sigma \phi \delta \nu$ of Heraclitus, but, like the familiar phrase $o\dot{\nu}\partial\dot{\epsilon}\nu \pi \sigma \iota\kappa\dot{\iota}\lambda \rho\nu o\dot{\nu}\dot{\delta}\dot{\epsilon} \sigma \sigma \phi \delta\nu$, denotes something recondite or cunningly devised. In regard to $\dot{\omega}s \check{\epsilon}\chi\epsilon\iota$, I remarked above, in my note on Heraclitus, fr. 1, that it here refers to the process of becoming, "how it comes about." The words of the fragment mean, "Nature alone knows the secret of this cunning device, or the way in which this mysterious result is brought about." This use of $\dot{\omega}s \check{\epsilon}\chi\epsilon\iota$ and related phrases appears to have escaped many scholars. Possibly it baffled the copyists also in certain instances. Thus Xen. Mem. 1. 1. 11, $o\dot{\nu}\partial\dot{\epsilon} \gamma d\rho \pi\epsilon\rho \iota \tau \eta s \tau \omega r \pi \delta \tau \omega \nu \phi \dot{\nu} \sigma \omega r \omega v$ oi $\pi\lambda\epsilon$ îστοι, $\delta\iota\lambda\epsilon\lambda\epsilon$ γετο σκοπῶν, $\delta\pi\omega_s$ δ καλούμενοs ὑπὸ τῶν σοφιστῶν κόσμοs ἐχει, καὶ τίσιν ἀνάγκαιs ἕκαστα γίνεται τῶν οὐρανίων κτλ. Here the Mss. are divided between ἔχει and ἔφν, and the editors find it difficult to decide. I believe that ἔχει, which has the better credentials, is the true reading, though one may question whether the unfamiliar force of ἔχει or the similarity of sound led to the substitution of ἔφν. As I pointed out in my study Περὶ Φύσεως, the same duplicity as appears in the force of ὡs ἔχει occurs also in the use of φύσις, which predominantly signifies that which a thing is, but, pursuant to a constant habit of the human mind, is most frequently and naturally defined by recounting the story of its birth.

c. 18. Parmenides.

∇² 105, 34. Diog. L. 9. 22, γένεσιν ἀνθρώπων ἐξ ἡλίου πρῶτον γενέσθαι · αὐτὸν δὲ ὑπάρχειν τὸ θερμὸν καὶ τὸ ψυχρόν, ἐξ ῶν τὰ πάντα συνεστάναι.

Various proposals have been made for the emendation of $\eta\lambda iov$, of which $i\lambda ios$ is the most probable. It is obvious, however, that $i\xi$ $\eta\lambda iov$, or whatever we may substitute for it, was not intended to denote the elemental constituents of man, since they are expressly mentioned later in the sentence. If the writer had in mind merely the source of the force which led to the origin of man, $i\xi \ \eta\lambda iov$, however singular, may be allowed to stand. But Diels is quite right in regarding $a\dot{v}\tau\dot{o}v$ as corrupt. The language of Aristotle and his commentators suggests the obvious correction, $a\dot{v}\tau o\hat{i}s \delta' \dot{\epsilon}vv\pi \dot{a}\rho\chi\epsilon\iota v$, referring to the $\sigma\tau o\iota\chi\epsilon\hat{\iota}a \dot{\epsilon}vv\pi\dot{a}\rho\chi ov\tau a$.

V² **115**, **10**. Fr. 1, 28,

χρεώ δέ σε πάντα πυθέσθαι ήμὲν 'Αληθείης εὐκυκλέος ἀτρεμὲς ἦτορ ήδὲ βροτῶν δόξας, ταῖς οὐκ ἕνι πίστις ἀληθής.

Something depends upon the precise meaning of $\pi i \sigma \tau \iota s \, \delta \lambda \eta \theta \eta s$; for it must to a considerable extent determine our conception of the attitude of Parmenides toward the $\beta \rho \sigma \tau \partial \nu \, \delta \delta \xi a \iota$, which seem to have occupied his thought in much the larger part of his philosophical poem. The phrase recurs, fr. 8, 26 sq.,

αὐτὰρ ἀκίνητον μεγάλων ἐν πείρασι δεσμῶν ἔστιν ἄναρχον ἄπαυστον, ἐπεὶ γένεσις καὶ ὅλεθρος τῆλε μάλ' ἐπλάχθησαν, ἀπῶσε δὲ πίστις ἀληθής.

718 PROCEEDINGS OF THE AMERICAN ACADEMY.

Diels renders it with "verlässliche Wahrheit" and "wahre Überzeugung"; Burnet and Nestle do not vary the phrase but give "true belief" and "des Wahren Gewissheit" in both cases. Two other passages of the poem ought to be compared, to wit, fr. 8, 12,

> οὐδέ ποτ' ἐκ μὴ ἐόντος ἐφήσει πίστιος ἰσχύς γίγνεσθαί τι παρ' αὐτό,

and fr. 8, 17,

οὐ γὰρ ἀληθής ἔστιν ὁδός.

In the passage last mentioned $\dot{\alpha}\lambda\eta\theta\eta$ s $\dot{\delta}\delta\delta$ s is clearly equivalent to ' $\lambda\lambda\eta\theta\epsilon\eta$ s $\dot{\delta}\delta\delta$ s, as in fr. 4, 4 we have $\Pi\epsilon\eta\theta\delta\vartheta$ s $\dot{\epsilon}\sigma\tau\iota$ $\kappa\epsilon\lambda\epsilon\vartheta\theta$ os. So in Sophoel. O. R. 500,

ἀνδρῶν δ' ὅτι μάντις πλέον ἡ 'γὼ φέρεται, κρίσις οὐκ ἔστιν ἀληθής,

where the meaning obviously is that "there is no proving the truth of the contention that a seer outstrips me." This use of $\kappa\rho t\sigma s$ calls to mind the fact that Parmenides employs the same word, fr. 8, 15,

> ή δὲ κρίσις περὶ τούτων ἐν τῷδ' ἔστιν ἔστιν ἡ οὐκ ἔστιν κέκριται δ' οὖν, ὥσπερ ἀνάγκη, τὴν μὲν ἐῶν ἀνόητον ἀνώνυμον (οὐ γὰρ ἀληθής ἔστιν ὁδός), τὴν δ' ὥστε πέλειν καὶ ἐτήτυμον εἶναι.

Here the context appears to me to furnish the clue to the meaning of $\pi i \sigma \tau is$; for Parmenides clearly has in mind an action at law in which the issue is sharply drawn and judgment is rendered. So fr. 8, 27 sq. the $\pi i \sigma \tau i s$ $d \lambda \eta \theta \eta s$ sends $\gamma \epsilon \nu \epsilon \sigma i s$ and $\delta \lambda \epsilon \theta \rho o s$ into banishment. The juxtaposition of $\kappa \rho i \sigma \iota s$ and $\pi i \sigma \tau \iota s$ shows that $\pi i \sigma \tau \iota s$ means such evidence or proof as may be adduced in court, a meaning which the word quite regularly bore in legal argumentation. Aristotle, the logician, feeling that forensic oratory employed the enthymeme rather than the syllogism, and that in consequence its deductions were less cogent, continued to use $\pi i \sigma \tau is$ for rhetorical proof in contradistinction to $d\pi \delta \delta \epsilon i \xi is$, the stricter proof of logic or science. Thus $\pi i \sigma \tau i s$ is for him $\pi \epsilon \iota \theta o \hat{\upsilon} s$ $\kappa \epsilon \lambda \epsilon \upsilon \theta o s$, the method proper to a procedure which, like the plea of the rhetor, has for its object the establishment of the $\epsilon i \kappa \delta s$. In much the same way the $\sigma \eta \mu a \tau a$ of Parmenides, fr. 8, 2, are the $\sigma\eta\mu\epsilon\hat{\iota}a$ of forensic argumentation, which Aristotle in like manner and for the same reason distinguished from the more certain

τεκμήρια. Thus we see that the dialectic of Parmenides, which eventuated in the Aristotelian logic, employed the forms and terminology of forensic rhetoric, though with an evident effort to reduce argumentation to the exactitude of demonstration; and πίστιs ἀληθήs is just this demonstration of truth. When, therefore, Parmenides objects to the βροτῶν δόξαι, it is because they do not carry the force of logical or dialectic evidence, or that such evidence is against them.

∇² 115, 19. Fr. 1, 37, μόνος δ' ἔτι θυμὸς ὁδοῖο λείπεται.

V² 118, 38. Fr. 8, 1, μοῦνος δ' ἔτι μῦθος ὁδοῖο λείπεται, ὡς ἔστιν.

It appears to be generally conceded that $\theta \nu \mu \delta s$ and $\mu \hat{\nu} \theta \sigma s$ are corruptions of one and the same word; $\theta \nu \mu \delta s$, at any rate, is unintelligible. Of the numerous emendations proposed Platt's oluos is doubtless the best, though Diels seems to prefer pupos; but pupos does not so well explain the corruption as $ol\mu os$. I am about to propose a correction, which seems to me all but certain. The stress on $\mu \delta \nu \sigma s$ and $\lambda \epsilon i \pi \epsilon \tau \alpha \iota$ suggests that we are reduced to a way that barely remains. Similarly Plato, Symp. 184 B, μία δὲ λείπεται τῷ ἡμετέρῳ νόμῳ όδόs, reinforced by 184 Ε, μοναχοῦ ἐνταῦθα... ἄλλοθι δὲ οὐδαμοῦ, like the Aristotelian dictum, τὸ ἀμαρτάνειν πολλαχῶς ἔστι, τὸ κατορθοῦν μοναχῶς, calls to mind the Gospel saying, στενή ή πύλη και τεθλιμμένη ή όδος ή ἀπάγουσα ϵ is $\tau \eta \nu \zeta \omega \eta \nu$. I take it for granted that Parmenides regarded and characterized the way of Truth as a strait and narrow path, just as, fr. 6, 2 sq., he obviously thinks of the way of Error as broad, since "mortals, knowing nought, stagger $(\pi\lambda\dot{a}\tau\tau\sigma\nu\tau\alpha\iota)$ along it with unsteady minds." I can think of nothing so suitable for his purpose, or so likely to give rise to the corruptions $\theta \nu \mu \delta s$ and $\mu \hat{\nu} \theta \sigma s$, as the word $l\sigma\theta\mu\phi$ s. Plato, Tim. 69 E, uses it of the human neck, Emped. fr. 100, 19, of the narrow orifice of the clepsydra, and Hom., σ 300, uses $i\sigma\theta\mu\mu\nu\nu$ of a necklace. The Homeric scholiast says that the throat is called ἰσθμός, ἀπὸ τοῦ εἰσιέναι τὴν τροφὴν δι' αὐτοῦ. The corresponding use of $a\dot{v}\chi\dot{\eta}\nu$ (Herod. 7. 223) and of fauces in Latin in speaking of a narrow defile or 'isthmus' is sufficiently well known. Now it happens that in Emped. fr. 100, 19, ίσθμόs has become corrupted in a part of the MS. tradition, and in Sophoel., fr. 145,

ἁ δὲ μνᾶστις θνατοῖς εὐποτμότατα μελέων ἀνέχουσα βίου βραχὺν ἰσθμόν,

where $i\sigma\theta\mu\phi$ s refers to "the narrow span of life," modern scholars have ignorantly sought to substitute something else. Nauck here proposed $\delta_{\mu}\rho\nu$, as Platt does for Parmenides. But the MS. reading is confirmed by Aelian, V. H. 2. 41, $\delta\tau\epsilon \ a\dot{v}\tau\dot{\phi} \ \tau\dot{\sigma} \ \epsilon\kappa$ Bouroûs $\mu a\nu\tau\epsilon\hat{\iota}\rho\nu$ $\dot{a}\phi\ell\kappa\epsilon\tau\sigma \ \pi\rho\sigma\lambda\epsilon\gamma\rho\nu \ \tau\dot{\eta}\nu \ \tau\circ\hat{\nu} \ \beta\ell\sigma\nu \ \sigma\tau\epsilon\nu\sigma\chi\omega\rho\ell\alpha\nu$, and by Cicero's use of angustiae temporis.

I should therefore read $i\sigma\theta\mu\delta s$ $\delta\delta\delta\delta o$ in both fragments. Lest anyone be disturbed by the hiatus between $\xi\tau\iota$ and $i\sigma\theta\mu\delta s$, I remark that we find another instance of it in fr. 4, 6,

τήν δή τοι φράζω παναπευθέα έμμεν άταρπόν,

in each case in the bucolic diaeresis. Diels, Parmenides Lehrgedicht, p. 67, in his note on the latter passage, well says: "Der Hiat in der bukolischen Diärese nicht anzutasten!" Indeed, the collision of words ending and beginning with the same vowel was even regarded by ancient grammarians as peculiarly justifiable. See Christ, Metrik der Griechen and Romer², p. 41, § 55, and the remarks of ancient grammarians on Hom. Od. λ 595, Verg. Georg. 1, 281, and Hor. C. 1. 28, 24. Herwerden, Lexicon Gr. Suppletorium, p. 400, suggests that $i\sigma\theta\mu\phi$ s may have had the digamma, referring to Pindar, Isth. 1. 10, 32 and Bacchyl. 2, 7 Blass., but continues, "Sed fortasse hiatus nominum propriorum licentiae tribuendus. Cf. O. Schroeder, Prol. Pind. II. p. 14 et p. 17. Nec sane digamma habere potuit, si desscendit a verbo *lévau*." I do not believe it had the digamma.

V² 117, 7. Fr. 5, τὸ γὰρ αὐτὸ νοεῖν ἐστίν τε καὶ εἶναι.

The construction of this sentence has occasioned difficulties. It is obvious, however, that it is identical in meaning with fr. 8, 34, to be discussed below. I think we have here a case of brachylogy, and that we must supply $vo\epsilon iv$ before $\epsilon ivai$ from the preceding $vo\epsilon iv$. "For it is one and the same thing to think and to think that it is." See the examples cited by Kühner-Gerth, II. p. 565, § 597, h. Burnet, *Early Greek Philosophy*², p. 198, notes 1 and 3, propounds syntactical doctrines and puzzles which one ought in kindness to ignore. Any good grammar will supply abundant examples of the substantive use of the infinitive, with or without the article, earlier than the date of Parmenides. For Greek lyric poets, see Smyth, *Greek Melic Poets*,

note on Alcman, fr. XII. For the articular infinitive in general, consult the articles of Professor Gildersleeve in Amer. Journ. of Philol.

V² 117, 14. Fr. 6, 1, χρή τὸ λέγειν τε νοεῖν τ' ἐὸν ἕμμεναι · ἕστι γὰρ εἶναι, μηδὲν δ' οὐκ ἕστιν.

The view of Diels and Burnet, which takes $\xi \sigma \tau \iota$ and $\xi \sigma \tau \iota \nu$ as equivalent to $\xi \epsilon \sigma \tau \iota$, appears to me to be unsatisfactory; for the sentence thus becomes weak and out of character. Parmenides says: "For existence exists, and nought is not." The absence of the article with $\epsilon i \nu \alpha i$ and $\mu \eta \delta \epsilon \nu$ makes no difference. In regard to the first sentence, we must, perhaps, acquiesce in the view of Diels, who regards $\tau \phi$ as the epic pronoun, and renders: "Dies ist nötig zu sagen und zu denken, das nur das Seiende existiert"; but this use of $\tau \phi$ would be unique in Parmenides, in whom we expect the articular infinitive. It is possible that he meant "Speech and thought must be real"; for, though we do not otherwise find the recognition of the corporeal existence of thought and speech clearly expressed before the Stoics and Epicureans, it is by no means certain that Parmenides would not be called upon to defend his 'materialistic' doctrines by asserting the corporeality of thought and speech, since he expressly concerned himself with predication, fr. 8, 35 sq.

∇² **117, 21.** Fr. 6, 8,

οἶς τὸ πέλειν τε καὶ οὐκ εἶναι ταὐτὸν νενόμισται κοὐ ταὐτόν.

Burnet, Early Greek Philosophy², p. 198, n. 3, tortures this passage in order to eliminate the articular infinitives and the solecism $\tau \delta \ldots o\dot{\nu}\kappa \epsilon i\nu a\iota$; but his interpretation is impossible, and, as we have seen, his reluctance to admit the articular infinitive is indefensible. As to $\tau \delta \ldots o\dot{\nu}\kappa \epsilon i\nu a\iota$, others before him have found in it a rock of offence; but the responsibility rests with Parmenides. If he could say, $o\ddot{\nu}\tau \omega s$ $\eta \pi a\mu \pi a\nu \pi \epsilon \lambda \epsilon \nu a\iota$ $\chi \rho \epsilon \omega \nu \epsilon \sigma \tau \iota \eta \circ o\dot{\nu} \chi \iota$ (fr. 8, 11) alongside $\eta \delta' \dot{\omega} s o\dot{\nu}\kappa$ $\epsilon \sigma \tau \iota \nu \tau \epsilon \kappa a \iota \dot{\omega} s \chi \rho \epsilon \omega \nu \epsilon \sigma \tau \iota \mu \eta \epsilon i\nu a\iota$ (fr. 4, 5) it is difficult to see why he should not have said $\tau \delta o o\dot{\nu} \kappa \epsilon i\nu a\iota$ instead of $\tau \delta \mu \eta \epsilon i\nu a\iota$.

V² **119, 6.** Fr. 8, 9,

τί δ' ἄν μιν καὶ χρέος ὦρσεν ὕστερον ἡ πρόσθεν, τοῦ μηδενὸς ἀρξάμενον, φῦν. Diels renders $"\sigma \tau \epsilon \rho o \nu ~ \eta ~ \pi \rho \delta \sigma \theta \epsilon \nu$ with "früher oder später"; Burnet, correctly I believe, with "later rather than sooner"; for I regard the phrase as a sort of comparatio compendiaria. The question was repeated and amplified by later philosophers; cp. Lucret. 5, 165–180; Cic. N. D. 1. 9. 21; V² 305, 16 sq.; Diels, Dox. Gr., p. 301, 2, kal o"tre κατὰ τὸ πρῶτον μακάριος ἐστιν ὁ θεός, τὸ γὰρ ἐλλείπων εἰς εὐδαιμονίαν οὐ μακάριον, ο"tre κατὰ τὸ δεύτερον · μηδὲν γὰρ ἐλλείπων κεναῖς ἕμελλεν ἐπιχειρεῖν πράξεσιν. In the last passage I think we should clearly read καιναῖς for κεναῖς; cp. Lucret. 5, 168 sq.,

> Quidve novi potuit tanto post ante quietos inlicere ut cuperent vitam mutare priorem? nam gaudere novis rebus debere videtur cui veteres obsunt; sed cui nil accidit aegri tempore in anteacto, cum pulchre degeret aevum, quid potuit novitatis amorem accendere tali?

I may add that Parmenides, fr. 8, 7, $\pi \hat{\eta} \pi \delta \theta \epsilon \nu \alpha \delta \xi \eta \theta \epsilon \nu$, and 8, 32 sq.,

οὕνεκεν οὐκ ἀτελεύτητον τὸ ἐὸν θέμις εἶναι · ἔστι γὰρ οὐκ ἐπιδευές, ἐὸν δ' ἂν παντὸς ἐδεῖτο,

is expanded by Plato, Tim. 32 C-34 A, with an obvious addition 33 A, which is apparently drawn from the Atomists. Cp. V^2 343, 4 sq., and my *Antecedents of Greek Corpuscular Theories*, Harvard Studies in Class. Philol., 22 (1910), p. 139. See also the discussion above (p. 693 sq.) of V^2 34, 18.

V² 120, 13. Fr. 8, 34, ταὐτὸν δ' ἐστὶ νοεῖν τε καὶ οὕνεκέν ἐστι νόημα.

So far as I am aware, all interpreters of Parmenides have taken $o \breve{\nu} \epsilon \kappa \epsilon \nu$ in the sense of "that for the sake of which." This is, of course, quite possible; but we thus obtain no satisfactory sense unless we are to adopt the Neo-Platonic conceptions which obviously suggested the accepted rendering. Probably no student of ancient philosophy who has learned the rudiments of historical interpretation would go so far afield. Only the natural obsession that we must take our cue from the ancients, whose incapacity in this regard should no longer be a secret, can account for the failure of some one to make the obvious suggestion that we take $o \breve{\nu} \kappa \epsilon \nu$ as $\breve{\sigma} \tau_i$, and read $\breve{\epsilon} \sigma \tau_i$; for it seems clear that Parmenides meant, "*Thinking and the thought that the object of thought exists, are one and the same.*" Kühner-Gerth, II. p. 356, and the lexicons give the examples for this use of $o \breve{\nu} \kappa \kappa a$; for

the dependence of a substantive clause on a verbal substantive, Stahl, *Krit.-histor. Syntax des gr. Verbums der klass. Zeit*, p. 546, § 2, gives abundant examples, to which a careful reader will be able to add largely in a week. The parallelism of infinitive and substantive is no closer than Mimnermus, 2, 10,

αὐτίκα τεθνάμεναι βέλτιον η βίοτος.

If the inverted order of words should cause any one to hesitate, let him recall Xenophanes, fr. 34, 2,

καὶ ἅσσα λέγω περὶ πάντων,

and Sophoel. O. R. 500 sq., quoted above, p. 718, on fr. 1, 28 sq. I regard this construction as of especial importance, because the frank equivalence of the infinitive with the substantive would seem to render for all time impossible the strange acrobatic feats performed by Burnet in his endeavor to eliminate the substantival infinitive, with or without the article, from the text of Parmenides.

c. 19. Zeno.

V² 133, 8. Fr. 1, καὶ περὶ τοῦ προὕχοντος ὁ αὐτὸς λόγος. καὶ γὰρ ἐκεῖνο ἕξει μέγεθος καὶ προέξει αὐτοῦ τι. ὅμοιον δὴ τοῦτο ἅπαξ τε εἰπεῖν καὶ ἀεὶ λέγειν. οὐδὲν γὰρ αὐτοῦ τοιοῦτον ἔσχατον ἔσται οὕτε ἕτερον πρὸς ἕτερον οὐκ ἔσται. οὕτως εἰ πολλά ἐστιν, ἀνάγκη αὐτὰ μικρά τε εἶναι καὶ μεγάλα · μικρὰ μὲν ὥστε μὴ ἔχειν μέγεθος, μεγάλα δὲ ὥστε ἅπειρα εἶναι.

The question discussed in the portion of the fragment here reproduced concerns the second alternative, $\mu\epsilon\gamma\lambda\lambda$ $\delta\epsilon$ $\delta\sigma\tau\epsilon$ $\ddot{a}\pi\epsilon\iota\rho a$ $\epsilon\dot{i}\nu a$. There is some difference of opinion among scholars regarding the precise conception of $\tau\delta$ $\pi\rho\sigma\delta\chi\sigma\nu$. For some years I have been accustomed to think of the $\pi\rho\sigma\delta\chi\sigma\nu$ $\dot{\epsilon}\sigma\chi\alpha\tau\sigma\nu$ of Zeno as the *extremum quodque cacumen* of Lucretius 1, 599; or, more exactly, I have held and still hold that the Epicurean doctrine of the *partes minimae*, of which the definition of the *extremum cacumen* is a part, owed its origin in part to this argument of Zeno's. The discussion of the *partes minimae* by Giussani had never satisfied me; the view of Pascal, *Studii Critici sul Poema di Lucrezio* (1903), p. 49 sq., seemed to me essentially sound (see Amer. Journ. of Philol., 24, p. 332). He drew attention to Aristotle's arguments (De Anim. 409^a 13 sq., De Gen. et Corr. 326^b 1 sq., Phys. 240^b 8 sq.) to prove that the $\dot{a}\mu\epsilon\rho\dot{\epsilon}s$ cannot have motion, or at most can have motion $\kappa a \tau a \sigma \upsilon \mu \beta \epsilon \beta \eta \kappa \delta s$ only, which would be fatal to the older Atomism. Pascal himself did not see that Aristotle (and MXG. 977^b 11 sq.) derived his arguments from Plato, With these we must clearly associate the questions Parm. 138 BC. touching the rotation of a circle or a sphere, Arist. Phys. 240^a 29 sq., 265^b 7; Simpl. Phys. 1022; [Arist.] Qu. Mech. c. 1; Plotin. Ennead. 2.2.1. But Plato clearly had in mind positions taken by the younger Eleatics, which he was developing. What these were in detail I am unable to say; but the argument of Zeno which we are considering seems to me to present the same problem from another angle; if the criticisms of Plato and Aristotle, applied to the atom, as an $d\mu\epsilon\rho\epsilon_s$, rendered motion, which the Atomists regarded as inherent in it, apparently impossible, the criticism of Zeno made it necessary that there should be a limit to the number and the divisibility of the parts of which a revised atomism might concede that it was composed. In fr. 1, therefore, I regard autoù in $\pi \rho o \epsilon \xi \epsilon \iota$ autoù $\tau \iota$ as a partitive genitive, and accept the emendation of Gomperz, $\omega\sigma\tau\epsilon\,\epsilon\tau\epsilon\rho\sigma\nu\,\pi\rho\delta\,\epsilon\tau\epsilon\rho\sigma\nu$ for our ϵ $\epsilon \tau \epsilon \rho o \nu$ $\pi \rho \delta s$ $\epsilon \tau \epsilon \rho o \nu$. As I conceive the matter, Zeno does not think of a *cacumen* as being added; but, since every extended part is susceptible of division, that which we regard as the $\pi\rho o \ddot{\nu} \chi o \nu$ must always have an outer and an inner half, and so by the division ad *infinitum* of the $\pi \rho o \ddot{\nu} \gamma o \nu$ itself there is crowded between it and the next inward 'unit' an infinitude of parts which, from Zeno's point of view, must in effect advance the $\pi \rho o \delta \chi o \nu$ or *cacumen* outward ad infinitum. Consequently things become $\mu\epsilon\gamma\dot{a}\lambda a\,\ddot{\omega}\sigma\tau\epsilon\,\ddot{a}\pi\epsilon\iota\rho a\,\epsilon\dot{\ell}\nu a\iota$.

c. 20. Melissus.

V² 145, 10. Fr. 7. 3, άλλ' οὐδὲ μετακοσμηθῆναι ἀνυστόν · ὁ γὰρ κόσμος ὁ πρόσθεν ἐων οὐκ ἀπόλλυται οὕτε ὁ μὴ ἐων γίνεται. ὅτε δὲ μήτε προσγίνεται μηδὲν μήτε ἀπόλλυται μήτε ἐτεροιοῦται, πῶς ἂν μετακοσμηθὲν τῶν ἐόντων εἴη; εἰ μὲν γάρ τι ἐγίνετο ἐτεροῖον, ἤδη ἂν καὶ μετατκοσμηθείη.

A careful reading of this passage will convince any scholar that there is something wrong with it. The difficulty, however, lies entirely in the clause $\pi \hat{\omega}_s \ldots \epsilon \tilde{\iota} \eta$, where the MSS. read $\mu \epsilon \tau \alpha \kappa \sigma \mu \eta \theta \epsilon \nu \tau \omega \nu$ $\epsilon \delta \nu \tau \omega \nu$ $\tau \iota \eta$. Mullach and Ritter-Preller present the same text as Diels, except that they read $\tau \iota \epsilon \tilde{\iota} \eta$. Diels renders the clause thus: "wie sollte es nach der Umgestaltung noch zu dem Seienden zählen?" Burnet, apparently accepting the text of Mullach and Ritter-Preller,

translates "how can any real thing have had its order changed?" I do not believe this rendering, which agrees with that of Mullach, is possible, for I know of no such periphrastic form as $\mu\epsilon\tau\alpha\kappa\sigma\sigma\mu\eta\partial\epsilon\nu$ $\epsilon\eta$ $(\dot{\alpha}\pi\alpha\rho\nu\eta\theta\epsilon\iotas$, Plato, Soph. 217 C, is aor. pass. in form only); that of Diels, on the other hand, though clearly necessary if one adopts his text, does not yield the thought required in the context. I incline to think that $\tau\iota$ and $\hat{\eta}$ are marginal corrections which have been misread and misplaced, and that we should read $\pi\hat{\omega}s \ \hat{\alpha}\nu \ \mu\epsilon\tau\alpha\kappa\sigma\sigma\mu\eta\theta\epsilon\eta \ \tau\iota \ \tau\hat{\omega}\nu$ $\dot{\epsilon}\acute{\omega}\tau\omega\nu$; "How should anything real suffer change of order?"

V² 149, 1. Fr. 9, εἰ μὲν οὖν εἰη, δεῖ αὐτὸ ἐν εἶναι· ἐν δὲ ὅν αὐτὸ σῶμα μὴ ἔχειν. εἰ δὲ ἔχοι πάχος, ἔχοι ἂν μόρια, καὶ οὐκἑτι ἐν εἴη.

Although Simplicius twice so quotes Melissus, and we cannot therefore doubt that his text so read, I cannot believe that Melissus wrote $\sigma \hat{\omega} \mu \alpha \mu \dot{\eta} \xi \chi \epsilon \nu$. That the Neo-Platonists understood him as holding that the existent is incorporeal is of course well known, but is insufficient warrant for attributing the doctrine to him. Zeller and Burnet seek to obviate the difficulty by referring the fragment, not to the Eleatic One, but to the Pythagorean Unit. Against this view there are two objections which appear to me to be fatal to it: first, we should have to suppose that Simplicius, who read this passage in its context, did not grasp its import, which must have been fairly clear; second, even if Simplicius should have erred in this respect, the argument of Melissus must have been applicable to the Eleatic One, and so Simplicius would be substantially right in quoting the words in order to prove that the Eleatic One was incorporeal. This very conception of Eleatic doctrine, however, would sufficiently account for a corruption of the text, such as reading $\xi_{\chi\epsilon\iota\nu}$ for $\epsilon\iota\nu a\iota$. That is what I conceive to have occurred. Melissus, understanding $\sigma\hat{\omega}\mu a$ as an $d\theta\rho o i\sigma\mu a$ of parts which, because divisible ad infinitum, must be tridimensional or "have thickness," says that a true Unit (whether Eleatic or Pythagorean) cannot be conceived as a $\sigma\hat{\omega}\mu a$ or άθροισμα. See Amer. Journ. of Philol., Vol. 28, p. 79. At the beginning of the same clause the MS. tradition clearly points to the reading $\delta \nu \delta' \delta \partial \nu$ rather than $\delta \nu \delta \delta \delta \nu$. This correction, which I had noted several years ago, has now been made by Diels in V³.

c. 21. Empedocles.

 ∇^2 203, 13 sq. Arist. De Anima 1. 2. 404^b 8 sq., asserts that Empedocles regarded the soul $(\psi v \chi \dot{\eta})$ as compounded of all the elements,

and quotes fr. 109 to prove it. So far as I can recall, all scholars have been content to accept this deduction of Aristotle, although the words quoted offer not the slightest confirmation of it and the doctrine thus ascribed to Empedocles is diametrically opposed to his conception of $\psi v \chi \dot{\eta}$ in matters of religion. This conflict has been often noted, but no one seems to have seen that the solution of the difficulty lies in the simple fact that Empedocles did not connect these functions with the $\psi v \chi \dot{\eta}$, which he, like many other early Greeks, thought of as the entity only which escapes from man at the moment of death and survives the body. Fr. 110, 10,

πάντα γὰρ ἴσθι φρόνησιν ἔχειν καὶ νώματος αἶσαν,

shows what language Empedocles used: everything has $\phi \rho \delta \nu \eta \sigma \iota s$ and $\nu \delta \eta \mu a$, but not $\psi \nu \chi \dot{\eta}$. See my remarks in Amer. Journ. of Philol., 33, p. 94 sq., and Journ. of Philos., Psychol. and Scient. Methods, 10, p. 107.

V² **203**, **34**. Fr. 110,

εἰ γὰρ κέν σφ' ἀδινῆσιν ὑπὸ πραπίδεσσιν ἐρείσαs
εὐμενέως καθαρῆσιν ἐποπτεύσης μελέτησιν,
ταῦτά τέ σοι μάλα πάντα δι' αἰῶνος παρέσονται,
ἄλλα τε πόλλ' ἀπὸ τῶνδ' ἐκτήσεαι · αὐτὰ γὰρ αὕξει
5 ταῦτ' εἰς ἦθος ἕκαστον, ὅπη φύσις ἐστὶν ἐκάστω.
εἰ δὲ σύ γ' ἀλλοίων ἐπορέξεαι, οἶα κατ' ἄνδρας
μυρία δειλὰ πέλονται ἅ τ' ἀμβλύνουσι μερίμνας,
ἢ σ' ἄφαρ ἐκλείψουσι περιπλομένοιο χρόνοιο
σφῶν αὐτῶν ποθέοντα φίλην ἐπὶ γένναν ἰκέσθαι ·
10 πάντα γὰρ ἵσθι φρόνησιν ἔχειν καὶ νώματος αἶσαν.

The text of this fragment as given by Hippolytus is extremely corrupt; but I accept the text given by Diels everywhere except in verses 4 and 5. Here the MSS. read $a\check{v}\xi\epsilon\iota$ and $\check{e}\theta\sigma$ s: Diels retains the former and adopts Miller's suggestion of $\mathring{\eta}\theta\sigma$ s for the latter. This text I think is clearly wrong, as the difficulties experienced by Diels in rendering the passage ought to convince any reader. But v. 8 sq. seem to me to show what we require; for they obviously contain the converse of the statement which the poet made in the sentence we are considering. I am convinced that Empedocles wrote $\check{a}\xi\epsilon\iota$, not $a\check{v}\xi\epsilon\iota$; with regard to $\check{e}\theta\sigma$ s, one may hesitate before deciding between the claims of $\check{e}\theta\nu\sigma$ s and $\mathring{\eta}\theta\sigma$ s. In favor of $\check{e}\theta\nu\sigma$ s one may quote Hippocr. $\Pi\epsilon\rho\iota \tau \delta\pi\omega\nu \tau \omega\nu \kappa \alpha\tau \dot{a} \varkappa v \theta \rho \omega \pi \sigma \nu$, 1 (6, 278 L.), $\tau o \hat{v} \tau \sigma \delta' \dot{o} \pi o \hat{v} \sigma \nu \tau \pi \star d\theta\eta$,

τὸ σμικρότατον ἐπαναφέρει πρὸς τὴν ὁμοεθνίην ἕκαστον πρὸς τὴν ἑωυτοῦ, ἤν τε κακὸν ἤν τε ἀγαθὸν ἦ · καὶ διὰ ταῦτα καὶ ἀλγέει καὶ ἤδεται ὑπὸ ἔθνεος τοῦ σμικροτάτου τὸ σῶμα, ὅτι ἐν τῷ σμικροτάτῷ πάντ' ἔνι τὰ μέρεα, καὶ ταῦτα έπαναφέρουσιν ές τὰ σφῶν αὐτῶν ἕκαστα, καὶ ἐξαγγέλλουσι πάντα. Other passages which may be compared are the following. Hipporr. $\Pi \epsilon \rho i$ φύσιος ανθρώπου, 3 (6, 38 L.), και πάλιν γε ανάγκη αποχωρέειν ές την έωυτοῦ φύσιν ἕκαστον, τελευτῶντος τοῦ σώματος τοῦ ἀνθρώπου, τό τε ὑγρὸν πρός τὸ ὑγρὸν καὶ τὸ ξηρὸν πρὸς τὸ ξηρὸν καὶ τὸ θερμὸν πρὸς τὸ θερμὸν καὶ τό ψυχρόν πρός τό ψυχρόν. τοιαύτη δέ και των ζώων έστιν ή φύσις και των άλλων πάντων · γίνεταί τε όμοίως πάντα καὶ τελευτậ ὁμοίως πάντα · ξυνίσταταί τε γὰρ αὐτέων ἡ φύσις ἀπὸ τουτέων τῶν προειρημένων πάντων, καὶ τελευτά κατά τα είρημένα ές τωὐτὸ ὅθεν περ ξυνέστη ἕκαστον, ἐνταῦθα οὖν καὶ ἀπεχώρησεν. Περὶ φύσιος παιδίου 17 (7, 496 L.), ἡ δὲ σὰρξ αὐξομένη ὑπὸ τοῦ πνεύματος ἀρθροῦται, καὶ ἔρχεται ἐν αὐτέῃ ἕκαστον τὸ ὅμοιον ώς τὸ ὅμοιον, τὸ πυκνὸν ὡς τὸ πυκνόν, τὸ ἀραιὸν ὡς τὸ ἀραιόν, τὸ ὑγρὸν ὡς τὸ ὑγρόν · καὶ ἕκαστον ἕρχεται ἐς χώρην ἰδίην κατὰ τὸ ξυγγενές, ἀφ'οῦ καὶ ἐγένετο. Plato, Tim. 63 E, ἡ πρὸς τὸ συγγενὲς ὁδός. Ibid. 90 A, πρός την έν ούρανώ συγγένειαν. Herod. 4. 147, αποπλεύσεσθαι ές τούς συγγενέας. Plotin. Ennead. 4. 3. 24, είς τον προσήκοντα αὐτῷ τόπον. Hermias, Irris. 7 (V² 19, 14), ϵ is $\delta \epsilon$ $\tau \eta \nu$ abtoû $\phi \ell \sigma \iota \nu \epsilon \pi a \nu \iota \omega \nu d \eta \rho$. Menand. Epitrep. 105,

> εἰς δὲ τὴν αὐτοῦ φύσιν ἄρας ἐλείθερόν τι τολμήσει ποεῖν.

Lucret. 2, 1112,

nam sua cuique locis ex omnibus omnia plagis corpora distribuuntur et ad sua saecla recedunt.

These examples sufficiently prove that one can draw no inference from ϵi_s which would serve to decide the respective claims of $\hat{\eta} \theta o_s$ and $\check{\epsilon} \theta v o_s$; besides, the epic use of ϵi_s with reference to persons as well as places (II. 7, 312; 15, 402; Od. 14, 126 sq.), which would obtain in Empedocles, leaves the question open. The poet means to say that Pausanias, to whom he addresses his poem as Lucretius addressed his to Memmius, if he gives heed to the instruction of his master, will find that it will lead him into all truth, since each truth will seek its fellows, each after its own kind; but if he deserts the living truth, it will in turn desert him, each truth, as before, longing to join its kindred. There are two passages in which Lucretius has plainly derived inspiration and suggestion from these words of Empedocles.

- 1,400 Multaque praeterea tibi possum commemorando argumenta fidem dictis corradere nostris. verum animo satis haec vestigia parva sagaci sunt per quae possis cognoscere cetera tute. namque canes ut montivagae persaepe ferarum
 - 405 naribus inveniunt intectas fronde quietes, cum semel institerunt vestigia certa viai, sic alid ex alio per te tute ipse videre talibus in rebus poteris caecasque latebras insinuare omnis et verum protrahere inde.
- 1, 1114 Haec sei pernosces parva perductus opella namque alid ex alio clarescet nec tibi caeca nox iter eripiet quin ultima naturai pervideas: ita res accendent lumina rebus.

After 1, 1114, with Munro, I assume a lacuna; for it appears obvious that the sentence is incomplete. But in the absence of more certain indications I refrain from speculating as to what and how much may have perished in the breach. Yet *perductus*, which is clearly right and ought not to be changed to perdoctus, and iter, like the words of Empedocles, suggest guidance on the way of truth: it is possible that Lucretius may have taken a hint, as 2, 75 sq., from ancient relay torch races, in which one runner handed over his torch or ignited that of his team-mate, to illustrate the way in which a truth once known flashes light far along paths hitherto shrouded in night. In 1, 400 sq. Lucretius cleverly adapts a conception to his own uses. As he did not accept the doctrine of the ubiquity of intelligence in nature, which underlies the thought of Empedocles, he was obliged to introduce a simile in lieu of the bold personification of facts and truths which renders memorable the passage of his predecessor. We naturally ask whether there was anything in his model to suggest the particular simile which he chose. Now, it must be confessed that there is a possible point of contact, if Empedocles wrote $\eta \theta \sigma \sigma$ rather than θvos ; for in that case $\hat{\eta} \theta os$ would certainly not mean "character" or "heart," as has been supposed, but "haunts" or "lair," according to a usage familiar in Greek. In that event we should have to think of facts or truths as having, like mountain-ranging beasts, their lairs where they hide their young and to which they themselves return and guide the man who follows them. If Empedocles used the word $\hat{\eta}\theta_{0s}$, one might see in v. 4, $\ddot{a}\lambda\lambda a \tau \epsilon \pi \delta \lambda \lambda' \dot{a}\pi \delta \tau \hat{\omega}\nu \delta'$

čκτήσεαι, a reference to τόκος, usury; for, as one may perceive by Aeschin. 8. 35, δανείσματα οὐκ ὀλίγα, ἀφ' ὧν ἐκεῖνος τόκους ἐλάμβανε, the phraseology suggests it. Ancient writers, however, were fully aware of the metaphor, which was still alive, and played on the word, as Ar. Thesmoph. 842 sq., Plato, Repub. 555 E, Arist. Pol. 1. 10. 1258^b 5 sq.. This metaphor would well lead up to that of $\eta\theta\sigma$ s, as the lair of wild beasts. From this too, it would be easy to explain the figure of Lucretius, who substitutes mountain-ranging hounds tracking the beasts to their lairs (quietes, 1, 405, and caecas latebras, 408). Indeed, it is possible that Empedocles may have used the simile of the hound in this very connection, fr. 101,

> κέρματα θηρείων μελέων μυκτήρσιν ἐρευνῶν <όσμαθ'> ὄσσ' ἀπέλειπε ποδῶν ἁπαλή περὶ ποίη.

But the context in which the fragment is quoted by our ancient authorities, as well as Lucret. 4, 680 sq., suggest rather that Empedocles was there illustrating his doctrine of universal $\dot{\alpha}\pi\sigma\rho\rho\sigma\alpha\dot{\alpha}$. I find it difficult, therefore, to decide between the claims of $\ddot{\epsilon}\theta\nu\sigma\sigma$ and $\ddot{\eta}\theta\sigma\sigma$; but incline on the whole to favor the former because of v. 9,

ποθέοντα φίλην ἐπὶ γένναν ἰκέσθαι.

I may add that Mr. Cornford, From Religion to Philosophy, p. 64, makes an interesting suggestion in regard to Emped. fr. 17, 28,

τιμής δ' άλλης άλλο μέδει, παρά δ' ήθος εκάστω,

where he renders $\pi a \rho \dot{a} \dots \dot{\epsilon} \kappa \dot{a} \sigma \tau \psi$, 'each has its wonted range.' See ibid., p. 34.

Now that the general sense of Emped. fr. 110 is clear, there can be no doubt about the meaning of v. 5, $\delta \pi \eta \ \phi \delta \sigma \iota s \ \epsilon \delta \sigma \tau \ell \nu \ \epsilon \kappa \delta \sigma \tau \omega$. It is prout cuique natura est, "each after its kind."

c. 32. Philolaus.

V² 239, 31. Fr. 1, ἁ φύσις δ' ἐν τῷ κόσμῳ.

In V³ Diels adopts certain suggestions made in my Notes on Philolaus, Amer. Journ. of Philol., 28, p. 79, to which he refers, but rightly retains $\delta' \epsilon \nu \tau \hat{\varphi} \kappa \delta \sigma \mu \varphi$ instead of $\delta \epsilon \tau \hat{\omega} \kappa \delta \sigma \mu \omega$, which I formerly proposed; but in sense $\tau \hat{\omega} \kappa \delta \sigma \mu \omega$ was more nearly right than his rendering "bei der Weltordnung." In the notes he now cites parallels, which I furnished, for $\phi \nu \sigma \omega$ so $\tau \hat{\varphi} \kappa \delta \sigma \mu \varphi$. They sufficiently explain the phrase and fix its meaning. I will now add another, Plotin. Ennead. 3. 8. 1, παίζοντες δὴ τὴν πρώτην πρὶν ἐπιχειρεῖν σπουδάζειν εἰ λέγοιμεν πάντα θεωρίας ἐφίεσθαι καὶ εἰς τέλος τοῦτο βλέπειν, οὐ μόνον ἕλλογα ἀλλὰ καὶ ἄλλογα ζῷα καὶ τὴν ἐν τοῖς φυτοῖς φύσιν καὶ τὴν ταῦτα γεννῶσαν γῆν κτλ. Thus ἡ ἐν τῷ κόσμῷ φύσις = ἡ τοῦ κόσμου φύσις. In Plotinus there is probably a suggestion of the common, universal φύσις as manifesting itself in plant-life; but all these passages alike prove that the phrase does not mean "bei der Weltordnung."

V² 240, 5. Fr. 2, δηλοίδὲ καὶ τὰ ἐν τοῖς ἔργοις.

Since Diels has now (V^3) adopted my interpretation of these words. I might allow the matter to rest there; but the observation that this and similar phrases have been unduly pressed in other contexts leads me to illustrate it further. Nestle, in Philol., 67, 544, writing as it seems in ignorance both of Newbold's article and of mine, arrived at substantially the same conclusion with myself. It would carry us too far afield to consider in detail the passages which I have studied; hence I will give a list of those only which serve to illustrate Greek usage. It will be seen that $\epsilon \nu \tau \sigma \hat{i} s \epsilon \rho \gamma \sigma s$ and $\epsilon \pi \hat{i} \tau \hat{\omega} \nu \epsilon \rho \gamma \omega \nu$ are generally used when appeal is made to facts of common observation or knowledge, as opposed to theory, argument, or unsupported statement. As a matter of fact, these references are usually so general that they amount to nothing but the bald assertion that observation or knowledge confirms or contradicts the proposition in question. In very few cases which I have noted does the context suffice to enable one to specify the particular facts to which the writer affects to appeal: many passages are open to different interpretations and competent scholars find it difficult to agree about them. They are therefore especially valuable for our purposes. See Plato, Protag. 352 A, Soph. 234 E, Gorg. 461 D, Repub. 396 A, 599 B, Phaedo 110 A, Tim. 19 E, Legg. 679 D, Axiochus 369 A; Xenoph. Hiero 9.3; Bonitz, Index Arist. 286^a 27 sq., 40 sq.; Bywater, on Arist. Poet. 1453^a 17. Cp. Arist. De Gen. Animal. 3. 11. 762^a 15, οὐθέν γὰρ ἐκ παντὸς γίνεται, καθάπερ οὐδ' ἐν τοις ύπο της τέχνης δημιουργουμένοις. Meteor. 4. 3. 381^a 10, και ούδεν διαφέρει έν οργάνοις τεχνικοΐς ή φυσικοΐς, έαν γίγνηται · δια την αυτήν γαρ aίτίαν πάντα $\check{\epsilon}\sigma\tau a\iota$. Such general references to the similarity of products of art and of nature abound in certain works of the Corpus Hippocrateum. See also Hippocr. $\Pi \epsilon \rho i \phi \upsilon \sigma \epsilon \omega \nu$, 5 (where, after stating his theory, the writer says), $\pi\epsilon\rho i \mu\epsilon\nu o \delta \nu \delta o \nu \tau o \hat{\nu} \pi\rho \eta \gamma \mu a \tau o s d \rho \kappa\epsilon \hat{\iota} \mu o \iota$ ταῦτα · μετὰ δὲ ταῦτα πρὸς αὐτὰ τὰ ἔργα τῷ αὐτῷ λόγω πορευθεὶς ἐπιδείξω

τὰ νοσήματα τούτου ἕκγονα πάντα ἐόντα. In this instance the particular "facts" to which he appeals are mentioned. It is interesting to hear his conclusion, c. 15, ὑπεσχόμην δὲ τῶν νούσων τὸ αἴτιον φράσειν · ἐπέδειξα δὲ τὸ πνεῦμα καὶ ἐν τοῖs ὅλοις πρήγμασι δυναστεῦον καὶ ἐν τοῖs σώμασι τῶν ζῷων · ἤγαγον δὲ τὸν λόγον ἐπὶ τὰ γνώριμα τῶν ἀρρωστημάτων, ἐν οἶs ἀληθὴs ἡ ὑπόσχεσις (v. l. ὑπόθεσις) ἐφάνη · εἰ γὰρ περὶ πάντων τῶν ἀρρωστημάτων λέγοιμι, μακρότερος μὲν ὁ λόγος ἂν γένοιτο, ἀτρεκέστερος δὲ οὐδαμῶς οὐδὲ πιστότερος.

V² 241, 12. Fr. 6, ἰσοταγη̂.

Diels has now adopted my emendation $i\sigma\sigma\tau\alpha\gamma\hat{\eta}$ for MS. $i\sigma\sigma\tau\alpha\chi\hat{\eta}$. When I proposed it, I ventured the suggestion relying on the analogy of $\dot{\delta}\mu\sigma\tau\alpha\gamma\dot{\eta}s$, not knowing that $i\sigma\sigma\tau\alpha\gamma\dot{\eta}s$ itself was attested. I now observe, however, that Sophocles, *Greek Lexicon*, s. v. cites it from Nicom. 51.

c. 46. Anaxagoras.

V² 319, 19. Fr. 13, καὶ ἐπεὶ ἤρξατο ὁ νοῦς κινεῖν, ἀπὸ τοῦ κινουμένου παντὸς ἀπεκρίνετο, καὶ ὅσον ἐκίνησεν ὁ νοῦς, πῶν τοῦτο διεκρίθη · κινουμένων δὲ καὶ διακρινομένων ἡ περιχώρησις πολλῷ μᾶλλον ἐποίει διακρίνεσθαι.

It seems to me clear that $\dot{o} \nu o \hat{v}_s$ is the subject of $\dot{a}\pi\epsilon\kappa\rho i\nu\epsilon\tau o$ in the second clause. "After the $\nu o \hat{v}_s$ gave the initial impulse to the motion of the world, it began to withdraw from all that was set in motion; and all that to which the movement initiated by the $\nu o \hat{v}_s$ extended, was segregated. As this motion and segregation continued, the revolution greatly increased the segregation." The $\nu o \hat{v}_s$ gives the first impulse only, then withdraws to its condition of isolation; the revolution, once started, of itself accelerates and its effects in the segregation of like to like in the $\pi \dot{a}\nu\tau a \dot{o}\mu o \hat{v}$ increase. Cp. $\dot{\eta} \pi\epsilon\rho \iota \chi \omega \rho \eta \sigma \iota s a \upsilon \tau \dot{\eta}$, fr. 12, V² 319, 4 sq.

c. 51. Diogenes of Apollonia.

V² 334, 2. Fr. 1, λόγου παντὸς ἀρχόμενον δοκεῖ μοι χρεών εἶναι τὴν ἀρχὴν ἀναμφισβήτητον παρέχεσθαι.

With this statement compare Hippocr. Περί σαρκών, 1 (8. 584 L.), Έγὼ τὰ μέχρι τοῦ λόγου τούτου κοινῆσι γνώμησι χρέομαι ἐτέρων τε τῶν ἔμπροσθεν, ἀτὰρ καὶ ἐμεωυτοῦ · ἀναγκαίως γὰρ ἔχει κοινὴν ἀρχὴν ὑποθέσθαι τῆσι γνώμησι βουλόμενον ξυνθείναι τὸν λόγον τόνδε περὶ τῆς τέχνης τῆς ἰητρικῆς. Περὶ τέχνης, 4 (6. 6 L.), ἐστὶ μὲν οὖν μοι ἀρχὴ τοῦ λόγου, ἣ καὶ ὁμολογηθήσεται παρὰ πᾶσιν. Περὶ τόπων τῶν κατὰ ἄνθρωπον, 2 (6. 278 L.), φύσις τοῦ σώματος, ἀρχὴ τοῦ ἐν ἰητρικῆ λόγου. Ιοn of Chios, fr. 1 (V² 222, 1 sq.), ἀρχὴ δέ μοι τοῦ λόγου· πάντα τρία καὶ οὐδὲν πλέον ἢ ἕλασσον τούτων τῶν τριῶν· ἑνὸς ἐκάστου ἀρετὴ τρίας· σύνεσις καὶ κράτος καὶ τύχη.

c. 54. Leucippus.

∇² 343, 1. τὸ μὲν πῶν ἄπειρόν φησιν, ὡς προείρηται · τούτου δὲ τὸ μὲν πλῆρες εἶναι, τὸ δὲ κενόν, <ä> καὶ στοιχεῖά φησι, κόσμους τε ἐκ τούτων ἀπείρους εἶναι καὶ διαλύεσθαι εἰς ταῦτα.

For some time I have felt that there was some confusion and corruption in the text, and that the last sentence must refer to the rise of the worlds out of the $a\pi\epsilon_{\mu\rho\sigma\nu}$ and their return into it at dissolution. The well-known difficulties of the text of Diogenes alone deterred me from proposing a change. Now Diels, apparently from the MSS., restores $\dot{\epsilon}\kappa \tau \sigma \dot{\nu} \tau \sigma v$ for $\dot{\epsilon}\kappa \tau \sigma \dot{\nu} \tau \omega v$. That is obviously the correct reading, whatever its source; but with it should of course go The preceding the complementary reading ϵ is $\tau o \hat{v} \tau o$ for ϵ is $\tau a \hat{v} \tau a$. sentence, however, has likewise suffered. The $a\pi\epsilon\iota\rho\rho\nu$ is clearly conceived as the Aristotelian $d\rho\chi\eta$ και στοιχείον by the interpolator or epitomator who supplied the clause $\langle a \rangle$ kai $\sigma \tau o i \chi \epsilon i a \phi \eta \sigma i$; for to his mind the words $\tau o \dot{\tau} \sigma v \tau \delta \mu \epsilon v \pi \lambda \hat{\eta} \rho \epsilon s$, $\tau \delta \delta \dot{\epsilon} \kappa \epsilon v \delta v$ do not suggest spatial regions of the extended $\pi \epsilon \rho \nu$, but ontological $\gamma \epsilon \nu \eta$ of the metaphysical $d\rho\chi\eta$. His addition was absurdly misplaced, as were many in the text of Diogenes; but once there, it corrupted the following sentence. See above, p. 691, on V² 17, 37.

V² 344, 14. Arist. De Gen. et Corr. 1. 8. 324^b 35, δδῶ δὲ μάλιστα καὶ περὶ πάντων ἐνὶ λόγῷ διωρίκασι Λεύκιππος καὶ Δημόκριτος.

The meaning of the phrase $i\nu \lambda \delta \gamma \psi$ has here been strangely misconceived. Prantl renders it "in einer Begründung"; Zeller, 1^b 847, n. 1, "aus den gleichen Principien"; Döring, Gesch. der gr. Philos., I. 238, "die von einem Princip ausgehende Lösung"; Burnet, Early Greek Philosophy², 385, "on the same theory." I have failed to find this passage noted in Kranz's Wortindex, but in a similar one $(V^2 83, 8, i\nu) \delta i \lambda \delta \gamma \psi \pi a \nu \tau a \kappa \tau \lambda.)$, omitting to quote $\pi a \nu \tau a$, he gives the meaning of $\lambda \delta \gamma \sigma s$ "Vernunft" (V² II. 2, 357, 30)! Similarly

Burnet, in his note on Plato, Phaedo 65 D, gives a false emphasis and in effect a false interpretation, because he overlooks, what is obvious, that in the phrase $\kappa a i \tau \hat{\omega} \nu \ \check{\alpha} \lambda \lambda \omega \nu \ \check{\epsilon} \nu i \ \lambda \acute{o} \gamma \omega \ \check{\alpha} \pi \acute{a} \nu \tau \omega \nu$, the phrase $\dot{\epsilon} \nu i \ \lambda \acute{o} \gamma \omega$ is to be taken as emphasizing $\dot{\alpha} \pi \acute{a} \nu \tau \omega \nu$; and Capps, on Menander, Epitrep. 197 sq.

καταμενῶ, αὕριον ὅτῷ βούλεσθ' ἐπιτρέπειν ἐνὶ λόγῷ ἕτοιμος,

wrongly takes $\epsilon \nu \lambda \delta \gamma \omega$ with $\epsilon \tau \sigma \mu \rho \sigma$ instead of $\delta \tau \omega \rho \delta \delta \lambda \epsilon \sigma \theta$. Curiosity, awakened by the false points made by scholars in connection with the Aristotelian passage we are considering, led me to make a collection of cases of $\epsilon \nu i \lambda \delta \gamma \omega$, which grew to considerable proportions. I will not print a list here, since such collections possess no value in my sight except as an examination of the context serves to determine the sense of the locution in question. Suffice it to say that in almost every instance the immediate context contained a comprehensive or universal expression, such as $\pi \hat{a} \nu$, $o \hat{v} \delta \hat{\epsilon} \nu$, $\mu v \rho \hat{i} a$, etc. But $\dot{\epsilon}$ νλ λόγω does not stand alone, for there is a considerable number of phrases similarly used; of these I give a few which should serve to illustrate the construction. Aeschyl. P. V. 46, is $\dot{a}\pi\lambda\hat{\omega}$ $\lambda\delta\gamma\psi$. . . οὐδὲν; ibid. 505, βραχεῖ δὲ μύθω πάντα συλλήβδην μαθέ; ibid. 975, ἀπλῶ λόγω πάντας έχθαίρω θεούς; Herod. 2. 24, ώς μέν νυν έν έλαχίστω δηλωσαι, πâν εἴρηται; ibid. 225, ὡς δὲ ἐν πλέονι λόγω δηλῶσαι, ὡδε ἔχει; ibid. 2. 37, μυρίας ώς είπεῖν λόγ φ ; ibid. 3. 6, ἕν κεράμιον οἰνηρὸν ἀριθμ $\hat{\varphi}$ κεινόν ούκ έστι ώς λόγω είπειν ιδέσθαι; ibid. 3. 82, ένι δε έπει πάντα συλλαβόντα είπειν; Plato Apol. 22 B, ώς ἔπος είπειν ὀλίγου αὐτῶν ἅπαν- $\tau \alpha_s$; Xenoph. Mem. 4. 3. 7, $\dot{\omega}_s \gamma \dot{\alpha} \rho \sigma \sigma \nu \epsilon \lambda \delta \nu \tau \iota \epsilon i \pi \epsilon i \nu$, où $\delta \epsilon \nu \kappa \tau \lambda$.; Amphis, fr. 30, 7 Kock, απαντες ανδροφόνοι γάρ είσιν ένι λόγω. Adverbs like $\xi_{\mu\beta\alpha\chi\nu}$ are similarly employed. After reciting this list of passages I think we may be sure that in the passage we are considering Aristotle merely meant to say that the procedure of Leucippus and Democritus was not only exceedingly methodical ($\delta\delta\hat{\omega} \ \mu\dot{\alpha}\lambda\iota\sigma\tau\alpha$), but also comprehensive $(\pi\epsilon\rho) \pi a\nu\tau\omega\nu \epsilon\nu \lambda \delta\gamma\omega$. Possibly those who have been reading something more into Aristotle's words might receive some comfort from Hippocr. Περί έπταμήνου, 3 (7. 438 L.), χρώνται δέ πασαι $\dot{\epsilon}$ νὶ λόγ φ περὶ τουτέου· φασὶ γάρ κτλ. But the context shows that ένὶ λόγ ω means "one formula of expression." Even if one should insist on taking Aristotle's words as a parallel to this, it would greatly affect the traditional interpretations of the passage.

PROCEFDINGS OF THE AMERICAN ACADEMY.

V² 344, 21. Arist. De Gen. et Corr. 1. 8. 325^a 25, ὁμολογήσας δὲ ταῦτα μὲν τοῦς φαινομένοις, τοῦς δὲ τὸ ἐν κατασκευάζουσιν ὡς οὐκ ἂν κίνησιν οὖσαν ἄνευ κενοῦ, τό τε κενὸν μὴ ὃν καὶ τοῦ ὄντος οἰθὲν μὴ ὄν φησιν εἶναι. τὸ γὰρ κυρίως ὃν παμπλῆρες ὄν.

I cannot understand how scholars have been so long content to retain this text, which yields no sense and so clearly suggests the true reading. With it we must compare other passages in which the same matter is under consideration. Arist. Met. 1. 4. 985^b 4 (V² 343, 44), Λεύκιππος δὲ καὶ ὁ ἐταῖρος αὐτοῦ Δημόκριτος στοιχεῖα μὲν τὸ πληρες καὶ τὸ κενὸν εἶναί φασι, λέγοντες τὸ μὲν ὂν τὸ δὲ μὴ ὄν, τούτων δὲ τὸ μὲν πλήρες και στερεόν τὸ ὄν, τὸ δὲ κενὸν και μανὸν τὸ μὴ ὄν (διὰ και ούθέν μαλλον τό ὄν τοῦ μή ὄντος είναι φασιν, ὅτε οὐδὲ τὸ κενόν <ἕλαττον Diels> τοῦ σώματος), αἴτια δὲ τῶν ὄντων ταῦτα ώs $\ddot{\nu}\lambda\eta\nu$. Whether Diels was right in proposing to insert $\ddot{\epsilon}\lambda\alpha\tau\tau\sigma\nu$ we shall have presently to inquire. Simpl. Phys. 28, 11 (V² 345, 5), $\epsilon\tau\iota$ δὲ οὐδὲν μᾶλλον τὸ ὂν ἢ τὸ μὴ ὂν ὑπάρχειν, καὶ αἴτια ὁμοίως είναι τοῖς γινομένοις ἄμφω. τὴν μὲν γὰρ τῶν ἀτόμων οὐσίαν ναστὴν καὶ πλήρη ὑποθέμενος ὂν ἕλεγεν εἶναι καὶ ἐν τῷ κενῷ φέρεσθαι, ὅπερ μή ὃν ἐκάλει καὶ οὐκ ἕλαττον τοῦ ὄντος εἶναί φησι. We are familiar with the pun which Democritus employed to enforce this point of doctrine, fr. 156 (V² 413, 11), μή μαλλον τό δέν ή τό μηδέν είναι. It seems to me obvious that in the passage under consideration $\mu\dot{\eta} \, \ddot{\sigma} \nu$ is a corruption by itacism for $\mu\epsilon\hat{\iota}\delta\nu$. Indeed, I am inclined to think that the pun $\tau \delta \tau \epsilon \kappa \epsilon \nu \delta \nu \mu \eta \delta \nu \kappa a \tau o \delta \delta \nu \tau o \delta \delta \nu \mu \epsilon \hat{\iota} o \nu derives from$ the same fertile brain as $\mu \dot{\eta} \ \mu \hat{a} \lambda \lambda o \nu \ \tau \dot{o} \ \delta \dot{\epsilon} \nu \ \ddot{\eta} \ \tau \dot{o} \ \mu \eta \delta \dot{\epsilon} \nu$, and that we have thus found another fragment of Democritus partially converted into the Attic dialect. If this be conceded, it seems more probable that we should supply $\mu \epsilon \hat{\iota} o \nu$ than $\tilde{\epsilon} \lambda a \tau \tau o \nu$ (with Diels) in Met. 985^b 9. Aristotle used the word, Eth. Nic. 5. 1. 1129^{b} 8, dokeî kal tò $\mu \epsilon \hat{\iota} \sigma \nu$ κακὸν ἀγαθόν πως εἶναι, where the true reading, corrupted in the MSS., had to be recovered from the commentaries and versions. Cp. Aeschyl. P. V. 508, ώς έγώ | εὕελπίς εἰμι τῶνδέ σ' ἐκ δεσμῶν ἕτι | λυθέντα μηδέν μειον ίσχύσειν Διός; Xenoph. Ages. 6. 3, τρόπαια μήν 'Αγεσιλάου ούχ όσα έστήσατο άλλ' όσα έστρατεύσατο δίκαιον νομίζειν. μεῖον μὲν γὰρ οὐδέν ἐκράτει κτλ.; Herondas 3, 59, ἕξει γαρ οὐδέν μεῖον; ibid. 15, 2, δς δ' ἔχει μεῖον | τούτου τι.

MIDDLETOWN, CONN., Feb. 25, 1913.