FICTIONAL SPACE: ESSAYS

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Preface: Learning to Read Science Fiction TOM SHIPPEY

None of the essays in this volume (including this one) spends very much time in discussing definitions of science fiction, or what science fiction is. There are good practical reasons for this: science fiction is not a new form in terms of most individuals' reading-experience, it is readily identifiable and regularly identified on a commercial basis by readers, publishers and bookshop-managers; it has in a sense defined itself. Nevertheless, another and more ignoble reason is that previous attempts to define it have proved so unsuccessful; no one wants to venture into a critical quagmire.

Yet around this absence of precise or agreed definition circle questions of interest not only to pedants or lexicographers, but to general readers and to students of the entire field of contemporary writing. Is science fiction, for instance, a field which draws its importance and relevance from a covert or metaphorical referentiality to its own real present (as implied in quite different ways by Spark and Elms below)? Or — since the real present so quickly goes out of date, while we can see now that

to the mature but non-eccentric literary mind?

gives most opportunity for a firm step forward gers this reaction? of particular plots, authors, styles, etc. It is instant pages and chapters, or based selectively on dislike science fiction and never read it; but though they are many people who simultaneously cannot bear common for the statements not to be true. There out of science fiction'. The experience is too science fiction, don't see how anyone gets anything they 'never read science fiction, just can't read academic colleagues of some sophistication, that towards definition. Many times in the past twenty but they do know what they don't like. What trigdetractors may not know much about the genre, and universal. It is, in fact, a generic reaction, and the repulsion they feel built up cumulatively over cannot bear it they recognize it immediately. Nor is years the present writer has been told, usually by field of science fiction, so to speak, by ricochet; its there is accordingly at least a chance of defining the Of all these questions, it is perhaps the last which

The inner nature of science fiction may be exposed by comparing two passages, very similar in content and style, but one inside the field and one outside it. The 'outsider' is the start of George Orwell's novel of 1939, Coming up for Air:³

The idea really came to me the day I got my new false teeth.

Star Trek or Star Wars? What is its relationship to fantasy fiction, is its readership still dominated by male adolescents, is it a taste which will ever appeal

from a 'ghetto', or wrapping exclusion luxuriously around its shoulders? Has it been strengthened or diluted by transition from the world of specialist

magazines to instant popular-medium success via

radical, a trampler of taboos (as implied by Shippey and Spark)? Does it use an 'independent economy

corroborated by Christie), or is it intrinsically

and flashed lights at him?² Not far away from these issues of novelty and relevance lie others: is science fiction an inherently conservative form in literary terms (as suggested below by Meyers and partly

ground that when he switched it on, it just buzzed

outdated, or been revealed as pseudo-science, or after its computer-conscious author has been exposed as a man who never progressed beyond the type-

even our grandparents' science fiction does not always follow suit – does science fiction draw its value, or some of its value, from mere or utter 'futuristic play' (an idea brought up by Huntington, see p. 62 below)? Not entirely unconnected with the pair of questions above, does science fiction have or need a close relationship with the 'science' its generic title suggests as a defining feature; or can it continue as fiction after its 'science' has become

writer and returned his first word-processor on the

of signs' (see p. 38 below), or is it parasitic upon the greater body of literary fiction? Is it emerging

I remember the morning well. At about a quarter to eight I'd nipped out of bed and got into the bathroom just in time to shut the kids out. It was a beastly January morning, with a dirty yellowish-grey sky. Down below, out of the little square of bathroom window, I could see the ten yards by five of grass, with a privet hedge round it and a bare patch in the middle, that we call the back garden. There's the same back garden, same privets, and same grass, behind every house in Ellesmere Road. Only difference — where there are no kids there's no bare patch in the middle.

I was trying to shave with a bluntish razor-blade while the water ran into the bath. My face looked back at me out of the mirror, and underneath, in a tumbler of water on the little shelf over the washbasin, the teeth that belonged in the face. It was the temporary set that Warner, my dentist, had given me to wear while the new ones were being made. I haven't such a bad face, really. It's one of those bricky-red faces that go with butter-coloured hair and pale-blue eyes. I've never gone grey or bald, thank God, and when I've got my teeth in I probably don't look my age, which is forty-five.

Quite how many things Orwell is trying to say in this passage is arguable. But probably from the 250 words cited one could easily make a list of some twenty to twenty-five data — a datum being a discrete fact stated or implied in the passage, such as: 'the narrator's house has a bathroom', or 'the narra-

e.g., that Orwell was particularly irritated by blunt or unmarried people, who have no children'. A easily generate a string of more debatable confiction be imagined too precisely for the purpose of the make-up of Ellesmere Road does not need to razor-blades, or may suspect that the demographic readers will not take it too far, for they may know the reading experiences of this passage; but sensible fuzz of such speculation must in some way surround 'the inhabitants of Ellesmere Road include retired razor-blades, even though these are/were cheap', or clusions, such as 'the narrator tries to economize on the bathroom), etc. In addition to these, we could children' (with whom, inferentially, he has to share has only one bathroom', or 'the narrator has tor's house has a garden', or 'the narrator's house

Yet what most readers work out from their twenty to twenty-five data must be something like this:

- of literary modes') is 'low mimetic', and on the verge of becoming ironic. He has false teeth, a sign of age, but also in 1930s England a strong sign of non-upper social class;⁴ he is middle-aged, his appearance is undistinguished, we will learn in the next paragraph that he is fat.
- 2 The narrator is clearly 'middle-class', or what would now be categorized as 'C1': his house has

the narrator's income and life-style. That is what already given, most English readers, in 1939 or directly under the bathroom window, and the a working-class house). But it is a small garder the house has a garden (so it is not a 'back-to-back' go). Orwell is particularly clear about these class-Orwell wants them to do. 1989, could and would make accurate guesses about window itself is a 'little' one. On the information marking details: the narrator is a house-owner, and their gardens (sc. because they have nowhere else to bare patch in it which tells us that children play in by economy, as is the size of the garden, and the bathroom. But this major inconvenience is dictated competitive occasions when it comes to using the only one bathroom, the w.c. is in it, there are at inferential mother). Mornings are accordingly least four people to share it (counting the children's

3 The narrator's life-style is a drab one. Whether this fact should be related to his class status, whether drabness is a necessary part of 'low mimesis', these are precisely the themes of the novel (which says in short that they are all related but, very passionately, ought not to be). Just the same, the fact is there, in the 'beastly' morning, the 'dirty' sky, the 'little' square of window, the 'bare' patch of garden, the 'bluntish' razor-blade, and so on: of the twenty-five adjectives in the passage, nine are clearly derogatory, others ('same' and 'only') inferentially so, yet others ('bad', 'grey', 'bald') sug-

gestive above all of the narrator trying to cheer himself up. Stylistically, the main qualities one might identify in the passage are its directness and single-mindedness. Orwell, it seems, has only a few things to say; while he will substantiate these with many details, all the details will point in one direction.

It is this which makes Coming Up for Air such a satisfactory if elementary example of how a non-science-fiction novel works. There is no doubt about its data; very little about what the data mean; and though there are some details of whose meaning a non-native or non-contemporary reader might be doubtful, like the privet hedge or the 'quarter to eight' rising, 5 they cause no serious trouble because they confirm or are confirmed by all the others. In the whole passage there is no jarring or inconsistent note.

Compare a matching passage from science fiction, again the opening of a novel, again a man shaving: this time from Frederik Pohl and C. M. Kornbluth's novel of 1953, *The Space Merchants*:6

As I dressed that morning I ran over in my mind the long list of statistics, evasions, and exaggerations that they would expect in my report. My section — Production — had been plagued with a long series of illnesses and resignations, and you can't get work done without people to do it. But the Board wasn't likely to take that as an excuse.

I rubbed depilatory soap over my face and rinsed it

poration; so far they hadn't done any good. blamed Consic saboteurs. Loyalty raids were being salt. It had been happening lately; some people start again. I swore a little and finished rinsing with held throughout the New York Water Supply Corwas quite washed away the trickle stopped and didn't my face itchy. Before the last of the greasy stubble course, but I pay taxes and salt water always leaves with the trickle from the fresh-water tap. Wasteful, of

and silvery on the Arizona sand, rioting in Panama... chimed over the audio band. I switched it off when the quarter-hour time signal last night, a brief glimpse of the Venus rocket squat caught me for a moment ... the President's speech of The morning newscast above the shaving mirror

Which certainly would not help mollify the Board. It looked as though I was going to be late again.

getting into the office. instead of studding a clean one and by leaving my Kathy. She didn't answer the phone and I was late But I lost the five minutes again by trying to call breakfast juice to grow warm and sticky on the table I saved five minutes by wearing yesterday's shirt

soap does not exist, that for it to exist some sort of answer must be (a) on reading 'depilatory soap' and fiction? And how does such a reader realize? The does not already know realizes that this is science (b) on realizing in rapid succession that depilatory How long is it, one might ask, before a reader who

> such a breakthrough nevertheless would be excognizable as not-true, but also as not-unlike-true the novum⁷ - a discrete piece of information rethings given'. The basic building-block of science the story, they are well labelled 'nova data', 'new science fiction. As well as recognizing data, you 'Depilatory soap' is not-real; but it is not-unlikeat one time imaginary) is by no means imaginary. stage, but also that the existence of such stages (all progression, to realize it is as yet an imaginary fact of a progression, to set 'depilatory soap' in that rechargeable-battery razors; and at once to note the concomitant development of electric, cordless and to the coated blade to the double blade, with the this phrase is in fact - if male and middle-aged chemical breakthrough would be necessary, that impossible. not-flatly- (and in the current state of knowledge) fiction (the term is Darko Suvin's) is accordingly recognize non-data; but since these are data within real. That, in miniature, is the experience of reading innovations, from the aerosol can of shaving cream likely to remember a string of shaving-technology ploited, just like freeze-dried coffee. The reader of

about the depilatory soap than about Orwell's 'bare Some are easily identifiable: there is no more doubt patch'. At the other extreme — as with Orwell's in the passage quoted? Probably, around fifteen. 'quarter to eight' - there are cases where a non-How many novums, in the sense given, are there

both cases there may be uncertainty, in both cases mation comes in. recycled bits are the studs that replace buttons? In on. Are the authors talking about collar-studs (old (again as with Orwell) suspended till more inforpaper disposable shirts, of which the only nontechnology), or maybe some future novelty, like of studding a clean one? All my shirts have buttons what is meant by 'wearing yesterday's shirt instead on radio and TV are now common enough. And audio band' sounds futuristic, but then time signals datum. The 'quarter-hour time signal...over the whether he or she is confronting a novum or a American or non-contemporary may be unsure

paragraph. 'It had been happening lately' implies (a) novums and inferences at the end of the second allowed to control them; this narrator is not entirely loyal to his government. There is a similar string of scarce; so scarce that only government can be world, we realize, natural resources are unexpectedly making some attempt to put them together. In this here, but no reader can register them without narrator pays taxes. There is a string of novums water is supplied by the government to which the water for washing is 'wasteful, of course'; fresh novum); so does fresh, but it trickles; using fresh instance: salt water comes out of the tap (one reader is unlikely to hesitate over it. Water, for this passage, though the experienced science fiction There is after all a great deal of information in

> water). But any 1953 reader was likely to note: servationist' (by inference from the interest in fresh now - and still more in 1953 - sets up the parallel saboteurs'. 'Some people' implies 'not everyone so, potentially irreversible change. 'So far they An astute reader might guess the answer 'Conis the missing term in the sequence 'Consie' (. . . ? with 'Commie'. If 'Commie' ('Communist', what and in particular not the narrator. 'Consie' even the five words 'some people blamed Consie reversibility. More inferences come, however, from hadn't done any good' backs up the notion of irchange, (b) recent change, (c) frequent occurrence

- in this world, Communists are no longer a threat.
- McCarthyite attitudes are still present. So,
- existence of the 'loyalty raids', as point 2 is by their 'Consies' are too. This is backed up by the failure if 'Commies' were just a scapegoat, maybe

nor the sceptical narrator would like to think about: Something, clearly, which neither the government coming over the narrator's horizon, what can? blamed for the potentially irreversible change ture of the whole novel. If 'Consies' cannot be tion, raises a further query more basic to the strucstemming from the fresh water/salt water opposi-But this last inference, when contrasted with those

get these increases), then you have the ground rules scruple to use physical and emotional addiction to continuous increases in consumption (and does not it is, to be brief, the ghost of Thomas Malthus in for the Pohl and Kornbluth 'dystopia'. Cola Company. Limited resources are bad enough. horrible alliance with the descendants of the Coca When they coexist with an ethic which demands

reader of The Space Merchants likewise soon has a some level that Orwell is writing about class. The either. Yet the latter group certainly understands at or 'Consie saboteurs' in the way that this discussion middle' or 'get into the bathroom just in time' boggle over the implications of 'bare patch in the has done, but then readers of Orwell do not stop to and chew over the implications of 'depilatory soap' thought. It is true that readers are unlikely to stop the real world, the effects with which we are so speculate what causes have produced the effects of which science fiction can never entirely escape - to changes, as also - and this is a 'referentiality' from familiar that in most cases they are never given a discover, what causes could have produced the they are similar, and go on to wonder, and to stage, as you realize how things are different, how discernible and distinguishable pleasure at each its novums, and then to evaluate them. There is a read any science fiction - one has first to recognize with novums. To read The Space Merchants - to But it does not start with ground rules. It starts

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clear idea that its authors are attacking the American way of life, or consumer-culture

science fiction, indeed, is that it is: novum, and of the pattern of intellectual inference to be drawn from it. Darko Suvin's definition of years. It is the existence in science fiction of the who have voiced distaste for science fiction over the readable to the many literate and liberal colleagues would have made The Space Merchants literally un-But it is not that message (I suspect) which

empirical environment.8 an imaginative framework alternative to the author's ditions are the presence and interaction of estrangea literary genre whose necessary and sufficient conment and cognition, and whose main formal device is

need both to read science fiction. Some people are willing to do neither means evaluating it, trying to make sense of it. You given, means recognizing the novum; 'cognition' Estrangement', with reference to the examples

of social and technical variables, any of which might is an accident, the result of the interaction of a host the status quo will refuse even the notion that reality stance, that those deeply and personally attached to ing. One might note here the remarks of John have been different and all of which are still varythe scope of literary criticism; it could be, for in-What causes this reluctance may well be beyond

allegiances' signalled by the Eloi and the Morlocks. class feeling. Huntington suggests that the truly machine itself, but the 'significant shifts in class revolutionary element of Wells's Time Machine in 1895 was not the 'scientific gesture' of the time Huntington below (pp. 62-4) about 'habitus' and

a shift perhaps repeated - Huntington further sug-

gests - in the 'hacker vs. corporation' world of

William Gibson's Neuromancer nearly ninety years

later. Huntington feels that these suggestions rather

is often a continuing adventure in new 'structures passim — is that science fiction does provide a conone could say - see Shippey and Spark below contemporary politics. In this sense science fiction hegemony, without accepting the battle-lines of tical issues, like Vietnam or threats to American sistent medium by which writers can consider poliquite how 'cognitive' these low-level cognitions of recognitions may be does not seem too vital. What without some recognitions and some evaluations Nevertheless one cannot read science fiction at all standards distinctly left-wing political stance.9 Pohl and Kornbluth's real-life and by American Consies/Commies and may very well not detect reader of The Space Merchants may not brood over

depends on what one means by 'cognition'. The other) prejudice. But, as has been said above, this scious rationality' as opposed tacitly to class (or which he thinks gives too much dignity to 'conqualify Suvin's thesis of 'cognitive estrangement',

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the start of this essay, it can be both 'referential' and of feeling'. And, to resolve an opposition set up at 119-24). 117-19 below) or vice versa ('Criticality', pp. when least playful (see 'The New Atlantis', pp. 'playful' at once, and not necessarily most referential

a 'high-information' literature. 'Information', as the considering the basic actions of reading science now means (see OED Supplement, vol. II, 1976): become a technical as well as a colloquial term. It fiction. It is that science fiction must intrinsically be There is a further conclusion one can come to by Oxford English Dictionary tells us, has in recent years

or the elements of the message. the statistical probabilities of occurence of the symbo ones, and which is defined logarithmically in terms of sequence, message etc., out of a number of possible the selection or formation of one particular symbol, one which represents the degree of choice exercised in As a mathematically defined quantity ... now esp.

of 'redundancy'. Some words can be readily predicted from their context, especially 'grammatical English, as in other languages, there is a high degree point to be drawn from it, though, and it is this. In after World War II, and to be associated with 'in-This sense seems to have become common only formation theory' and cybernetics. There is a literary

predictable, or particularly surprising, distinctive any words in the Orwell passage are entirely unchoices available to fill its slot. Just the same, few if tence one; it is less predictable, and there are more (no doubt deliberately) towards the low end of the though Orwell's style may be. The whole book is information word than 'came', or than 'the' in senmost readers would probably fill in, as first guess. 'nipped' in sentence three were to be blanked out, 'came' or 'false' in that sentence. But by contrast, if them in. The same is true of the 'lexical' words were to be blanked out, and the rest of the sentence fifth or the seventh word of the Orwell passage as opposed to 'lexical' items. If, for instance, the English novel's generally 'medium-information 'got' or 'jumped' or 'climbed'. 'Nipped' is a higherleft, few readers would have much trouble in filling

just because they are novums, are very hard to and 'depilatory' (as opposed to 'perfumed' or bluth passage would take many guesses to arrive at predict. Some of the words in the Pohl and Kornremoved - but 'studding', 'Consie', and both elenot so obvious once 'depilatory' and 'stubble' are text that the passage was about shaving - this is 'carbolic' or 'coal-tar') if one worked out from con-'fresh-water' from the antithesis with 'salt water' if they had been blanked out: one might guess intrinsically a 'high-information' genre. Novums, Science fiction, however, to repeat the point, is

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names, which could never be accurately recovered gnawed exemplar. it might be from a single surviving damaged or ratby any hypothetical editor of the future, working as that it contains at least a dozen words, not counting can go while remaining readable: I would suggest will show just how high a 'high-information' style range. A glance at the first 250 words of, say, towards the low end of their genre's informationpredictable. Yet Pohl and Kornbluth here, like ments of 'loyalty raids' seem to be inherently un-Gibson's Neuromancer, discussed so often below, Orwell within the English novel as a whole, are

stimulus to the exercise of 'cognition', of putting sity, as well as the pleasure of working out, in the extreme example of one of the characteristic marks inattentive reader. But that particular case is only an edge of the whole reality', is in fact a poor or missed something, failed to grasp 'more than an book is likely to feel all the time that he or she has Neuromancer, and says well that any reader of that again remarks on this with particular reference to is in a sense a deeply 'anxious' one: Huntingtor and what happens when they do. Yet this experience tank, to see if and when they start to fit together, unknown data into some sort of mental holding vocabulary and invented world. It is a powerful long run, the logic underlying the author's decisions, feeling of unpredictability. It creates intense curio-The science fiction reader, of course, likes this

the sudden jolt of 'high information' be altered, a required readiness to accept the novum of science fiction: unease, a feeling that rules may

should be related concepts is one challenge to cognalien sense of honour': why 'shadow' and 'honour grethor', which means at once 'shadow' and 'an may be taken as a meditation on the word 'shifsame is true of Ursula Le Guin's 'ansible', see cyberspace of 'watchdog programs', 'military black consensus-hallucination that facilitates the handling ition, perhaps resolved in the novel's quasi-allegor-Le Guin's 1969 novel The Left Hand of Darkness invented gadget. More suggestively, the whole of Meyers, p. 206 below, a word for an as yet unthey express concepts too good not to use. passed since 1984 into general science-fictional use ice' and 'icebreakers'. Strikingly, both words have measures Electronics, the constant warfare inside latter a concealed acronym for Intrusion Counterand exchange of massive quantities of data', the wide computer network of the future, the 'electronic will enter on plugging the brain into the worldtormer a neologism meaning the world one enters/ world are the words 'cyberspace' and 'ice', the nowhere explained. More significant in Gibson's like everyone else I am not a perfect reader) is graph three of Neuromancer contains the word 'joesuch jolts may be delivered is the neologism. Paraboys', a word which as far as I can see (but then Perhaps the most concentrated form in which

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or, from Philip K. Dick's Do Androids Dream of be done, like housework, but not sexually linked), opposed to exciting work, but work which has to have been borrowed from science-fiction novels is a neologism so closely tied to the world of its Electric Sheep? (1968), 'kipple': Dispossessed (1974), 'kleggitch' (boring work, as into everyday reality include, from Le Guin's The book that it has not been borrowed. Words which ical chapter 18, 'On the Ice'. 'Shifgrethor', however,

It always gets more and more. wake up the next morning there's twice as much of it kipple reproduces itself. For instance, if you go to bed or yesterday's homeopape. When nobody's around folders after you use the last match or gum wrappers Kipple is useless objects, like junk mail or match leaving any kipple around your apartment, when you

from The Gold Coast (1988). is Kim Robinson's self-explanatory 'mallsprawl' Another likely candidate for future lexicographers

should exist. Why, for instance, is there in English a gap, but also betraying the existence of the gap Sometimes they make one wonder why such a gap everyday experience, recognized instantly as filling valent to 'one' but not including the speaker, not our other personal pronouns are neutral-sex-equino neutral-sex third-person singular pronoun-al Words like these hang as it were on the edge of