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THE PSYCHOLOGIST is published monthly, and is despatched from the printers on the last Thursday of the month prior to publication date.

THE PSYCHOLOGIST is mailed free to Members of the Society

Subscription Enquiries to:
The British Psychological Society
St Andrews House
48 Princess Road East
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Subscription £30 per annum UK
£45 per annum Overseas
Single copies £5 UK, £3.75 Overseas.

Photocopies of feature and academic articles are also available from
University Microfilms Inc.
300 North Zeeb Road
Ann Arbor, Michigan 48106.

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Deadlines

Final Copy = 1st of the month prior to issue
News, regular items = two weeks before
Articles, features, reviews = six weeks before

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ISSN 0952-8229

Printed in England by The Lavenham Press Ltd., Lavenham, Suffolk.
The Psychologist

Incorporating The Bulletin of The British Psychological Society
Vol. 2 No. 11 November 1989

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DEmocracy Bureaucracy AND THE Psychologist

Why psychology should replace economics as the key discipline in policy development

Public servants and politicians should be guided by psychological considerations, rather than economic ones, John Raven argues. Only when the insights available through psychological research are applied to public policy can we ensure that public servants and politicians act in the public interest.

In writing the best case for social research that has ever been published, Rothschild (1982) argued that social scientists had not laid claim to the major role which they should be playing in modern societies. Maintaining that modern societies could not function effectively without a great deal of social research, he argued that social scientists had generally failed to perceive the need for studies of the requisite type and scale. They tended to mount studies which were too academic and individualistic. Undergraduate training in psychology tended to lead researchers to avoid messy policy-relevant studies, the results of which would not be beyond dispute, and to avoid pressing home the implications of such studies as they did carry out by engaging in politically-relevant debate. And social scientists were too inclined to criticise each other's work in ways which made funding agencies reluctant to invest more money in social research.

Rothschild did not spell out the social changes which formed a context for his remarks. However, the fact is that, over the past 40 years, dramatic changes have come about in the way in which society is organised. We now live in what is essentially a managed world economy (see Raven, 1982 for a discussion of the evidence). The national economies of which it is composed, transnational corporations and international trade are all managed on the basis of explicit information. Decisions are taken by people ("wise men" or not) and not by the invisible hand of the economic marketplace. The role of money has been overturned: instead of providing a mechanism whereby people can vote with their pennies to determine the direction in which things develop, control of prices and spending is now used to orchestrate the achievement of goals established through the information-based politico-bureaucratic process. "Customers" are typically no longer the individuals conjured up by economic theory, but corporate giants purchasing on behalf of thousands, if not millions, of people - for health services, local authorities, airlines, national governments and defence alliances.

Citizens have the utmost difficulty in influencing the way the two thirds of their "income" devoted to taxation is ultimately spent.

The extent of these changes is not generally recognised. In all EEC countries, approximately 45 per cent of GNP is spent directly by governments. This does not include local authority expenditure or expenditure by the nationalised industries. When this is added on, the figure comes to some 65 per cent. This still does not include the effects of legislation requiring firms to install such things as safety and pollution-control equipment or motorists to insure their cars. Nor does it include grant and levy legislation which is designed to ensure that people spend much of their "own" money in ways deemed appropriate by government. When these are added, the total comes to some 75 per cent. One can argue about the figure of 75 per cent, and one can argue about such things as how much control governments actually have over the way in which citizens spend transfer payments, but the general conclusion that governments play the dominant role in managing modern economies is indisputable.

These changes have come about for the best of reasons. An economy managed by the invisible hand of the marketplace gave us little control over the quality of the urban environment, crime, the inequitable distribution of income, plague and disease, environmental despoliation and pollution by producers or consumers, or even continued economic development itself. The immense social costs of dealing with the by-products of an industrial civilisation, and providing the education, highway, and regulatory infrastructure required for its effective operation, were
not subject to market forces. Only an extension of explicit management will give us control over international forces which have until now been beyond control - such as the worldwide depletion of physical and biological resources, pollution, population growth, exploitation of third world countries, international movements of money, tax evasion and unjustifiable marketing practices on the part of transnational companies, and war. Only an increase in world management will enable us to further improve, or even maintain, the quality of life - the wealth - of modern society.

The significance of these observations is this: while it has frequently been obvious that there was a need to evaluate particular policies - and especially pilot programmes - the central importance of evaluation and social accounting in modern society has generally not been appreciated.

Not only has the importance of such activity been underestimated, with the result that the establishment of more and better social research and development units has not been achieved as the key development which is needed if we are to find better ways of running modern society, there has been little discussion of either the institutional base which is required if social researchers are to perform their role effectively or the concept of science and research which should inform decisions about which research should be funded.

- was unacceptable to many tenants - and for good reasons: it imposed a sedentary way of life upon them (because they felt that any noise they made would disturb their neighbours); it bred isolation (because they had difficulty getting to know their neighbours because they could not see them from their living rooms and therefore did not recognise them when they met); it was unadaptable to their particular needs (because they could not alter it in the way that - as the growth of DIY has since demonstrated - many owners of two-storey housing do as a matter of course); it made for the deterioration of family relationships (because they were unable from their kitchens to supervise children at play outside); and access was often difficult (because the lifts went wrong or were vandalised).
- was more costly to build than equivalent two-storey housing
- was more costly to maintain than two storey housing
- accommodated fewer people per acre than two storey housing - which had the added advantage, if properly developed at the same density of persons per acre, of providing highly desirable garages, gardens and access to public open space.

Despite this high quality research, which reached the pernickety standards demanded in civil service research units, no action was taken. Building high rise family housing continued into the 1980s. The disaster is now recognised for what it is and these expensive tall blocks are being demolished.

However, apart from emphasising that the first set of conclusions could only have been established through social research, the main point I want to make here is, not that the policies in force were misguided, but that we need to evolve structures and procedures which will make it possible to ensure that action is taken on the basis of good information. Later in this article I will argue that psychologists have a crucial role to play in promoting the evolution of such structures and in developing and operating appropriate procedures.

There is, however, something else to be learnt from housing research because our research and that of colleagues working elsewhere (Willmott, 1963; Willmott & Young, 1960, 1965) also yielded other important insights. Not only did people want a wide variety of different types of housing, and wish to avoid the grey uniformity which is associated with public housing, the creation of vast single-class suburbs - many as large as whole towns - made it very difficult for young people who aspired to other ways of life to make contact with like-minded people and gain sufficient insight into their values and way of life to make meaningful choices. Furthermore, bureaucratic rules made it difficult for tenants to establish the community support networks which are associated with "unplanned" working class communities and this forced many people to lead isolated lives of demeaning dependence on welfare agencies and tranquillisers.

These further observations illustrate that not only do we need some (social research based) means of ensuring that public servants attend to the needs of their clients and try to invent better ways of meeting those needs, we also need to; (a) legitimise the choice required in public provision; (b) provide the public with the (social research-based) information they need to make meaningful decisions; (c) provide public servants with the (social research-based) tools they need to administer that choice; and (d) (in part through social research) evaluate and improve each of the choices so as better to meet the needs of those concerned.

If we require such an elaborate infrastructure to administer public housing effectively why have it at all? First, because it was necessary to build housing, and whole new towns, on an unprecedented scale. Second, because those for whom public housing was intended had, in the past, been very badly catered for (and sometimes mercilessly exploited by) builders, landlords and landlords. Third, because, although those concerned had a clear need for housing, they often lacked the resources which would have been required to transform that need into an economic demand. Fourth, because, even when they did have the necessary cash, they often did not have the collateral information and power to ensure that they were not exploited. And, fifth, because the knock-on effect of a large number of street people or impoverished families who lived in poor and insanitary housing would be so great both immediately in terms of disease and crime and, in the longer term, through the community's inability to make use of the considerable talents which undernourished and alienated youth could otherwise develop. (It may be noted that these needs still exist among our vast army of poorly paid and unwanted people, not to mention, among the single unemployed.) In short, if one left it to the market, one did not

Housing research and the bureaucrats

To underline the importance and nature of the social research required, the results of two programmes of research will now be summarised.

In the course of research conducted at the Building Research Station between 1959 and 1963 my colleagues and I (Raven, 1967; Stone 1961) found that high-rise family housing:

- was acceptable to many tenants - and for good reasons: it imposed a sedentary way of life upon them (because they felt that any noise they made would disturb their neighbours); it bred isolation (because they had difficulty getting to know their neighbours because they could not see them from their living rooms and therefore did not recognise them when they met); it was unadaptable to their particular needs (because they could not alter it in the way that - as the growth of DIY has since demonstrated - many owners of two-storey housing do as a matter of course); it made for the deterioration of family relationships (because they were unable from their kitchens to supervise children at play outside); and access was often difficult (because the lifts went wrong or were vandalised).
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There is, however, something else to be learnt from housing research because our research and that of colleagues working elsewhere (Willmott, 1963; Willmott & Young, 1960, 1965) also yielded other important insights. Not only did people want a wide variety of different types of housing, and wish to avoid the grey uniformity which is associated with public housing, the creation of vast single-class suburbs - many as large as whole towns - made it very difficult for young people who aspired to other ways of life to make contact with like-minded people and gain sufficient insight into their values and way of life to make meaningful choices. Furthermore, bureaucratic rules made it difficult for tenants to establish the community support networks which are associated with "unplanned" working class communities and this forced many people to lead isolated lives of demeaning dependence on welfare agencies and tranquillisers.

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get enough provision and a large proportion of that provided was socially unacceptable and had serious negative consequences for everyone.

There is one more lesson to be learnt from housing research. Public servants were, and remain, remarkably blind to issues which involve linkages between departmental responsibilities. One of these has to do with the linkages between housing policy and economic development. To accumulate the "points" required to demonstrate "need", one had both to have children and to have lived in the same locality for many years. If one moved from one local authority to another one went back to the bottom of the waiting list. This markedly restricted geographical mobility. One survey showed that 84 per cent of public housing tenants in England were unwilling to move under any circumstances.

Adam Smith and Hayek have argued that it is precisely this inability to appreciate connections, relationships and cumulative consequences which is the strongest argument for leaving such decisions to the invisible hand of the marketplace. Unfortunately, it was precisely the failings of the marketplace which led people to try to manage these processes. What is more, with the aid of information technology, we are now in a much better position to study and identify relevant relationships and consequences. The true conclusion to be drawn is that we need to establish policy research, evaluation, and development units whose brief it is to examine such issues, and then to find some way of ensuring that public servants take account of the results.

Exhortation and failure in education

Another, and in many ways even more disturbing, set of examples of the failure of public servants to act on information and consider the needs of their clients comes from education. Education was one of the first sectors of the economy to be socialised, for two main reasons: first, because education is intended to benefit everyone in society not just those who pass through the system; second, because the poor are in no position to pay for the education of their children and this is not only unfair on the children concerned but is also likely to deprive society of their talents.

Good though the reasons for socialising education are, research we have conducted since 1965 (Raven, 1977, 1988b) shows that some two thirds of the money spent on secondary education is wasted so far as the development of human resources is concerned. Secondary schools do little to foster the qualities which most parents, teachers, employers, and ex-pupils think they are there to foster and which other research shows it is, indeed, most important for them to foster. The qualities which are required include initiative, the ability to work with others and the ability to understand and influence society.

There are many reasons why schools tend to neglect these goals. Most were not obvious until research was undertaken and, even then, their discovery was usually "accidental" because little of the research was explicitly initiated with a view to identifying the forces which deflect schools from their goals. HMI and the DES tended to assume that exhortation was all that was necessary: if teachers did not follow their prescriptions the problem was assumed to have to do with teacher training or management. In reality, the problems are deep-seated and non-obvious, having to do with value conflicts, beliefs about the way the public sector should operate and the absence of the tools needed to manage individualised, competency-oriented, educational programmes. A great deal of further research and development activity - much of it of a fundamental nature - is required if the barriers are to be overcome (Raven, 1977, 1983, 1987a,c, 1989; Raven, Johnstone & Varley, 1985).

The reasons schools have tended not to foster these qualities include lack of understanding of the psychological nature of the desired competencies, how they are to be fostered and how progress towards them is to be assessed. The assessment problem is of particular importance because what happens in schools is mainly determined by what is assessed in the certification and placement process and not by the priorities of teachers, pupils, employers or even ministers of education.

When one studies the processes which lead to the development of competencies like initiative, leadership and the ability to solve problems, one discovers that such qualities can only be fostered in the course of activities which the pupil values. Yet teachers have no tools to help them to identify individual pupils' values, concerns and priorities, or to monitor the growth of these high level competencies in the course of individualised educational programmes. As soon as a serious attempt is made to implement programmes designed to foster such qualities, one discovers that one cannot, in the same classroom, foster qualities like toughness and strength, instant obedience and the ability to stick up for oneself, and qualities like creativity, initiative, sensitivity to the germs of new ideas, and the ability to communicate effectively. If one is to foster the latter qualities with any pupils, it is necessary to legitimise the provision of a variety of educational programmes directed towards the development of different competencies. This conflicts with the current emphasis on equality in public provision and education in particular.

Yet other barriers to the introduction of generic-competency-oriented education stem from concepts of the role of the teacher and the criteria applied in staff appraisal. If teachers are to foster high level competencies they must pay attention to the needs of individual pupils and try to invent better ways of meeting these. Yet teachers are not expected to be innovators and inventors. No time is set aside for such activities. Their job is viewed as being to do the bidding of elected representatives. There is no means of getting credit for engaging in the difficult, demanding, frustrating, and risky business of trying to find better ways of meeting each student's needs. Thus it emerges that, if education is to be brought into secondary schools, it will be necessary for the pupils' parents to evolve new understandings of how public sector institutions should work and the role of public servants, including teachers.

Other notable conclusions are that the public servants responsible for the development and implementation of educational policy have failed: (a) to monitor and attend to the needs and actions of the clients of the educational system; (b) to capitalise on the wide variety of different talents which can be fostered among pupils for their own and society's benefit; (c) to harness the wide variety of motives which can be tapped to fuel enthusiasm for educational activities; and, most importantly, (d) to act on such information as was available.

"Vast misuse of public money"

So here we have evidence - much of which has been available for 20 years - of another vast misuse of public money, further evidence of the need to provide variety within the public sector and further evidence of the need to hold public servants accountable against different criteria.
In the context of the current Zeitgeist it is important to emphasise that the problems could only be solved by "returning" the activity to the marketplace. The reasons for this are: (a) if our society is to develop, many attitudes and skills - which it is the responsibility of the educational system to identify and foster - need to be widely shared in society and not just possessed by an elite; (b) we need a wide variety of people who possess different combinations of specialist information the need for which cannot become clear until after the event and which is therefore difficult to purchase as an individual; (c) many people are in no position to pay for themselves or their children; and (d) the main benefits are not going to be derived by people as individuals but by them as members of a society which has developed as a whole. If everyone is going to benefit (even those who have no children), everyone should pay.

People would be most likely to pay, as individuals, for those "educational" programmes which were most likely to lead to credentials which would in turn buy entry to protected occupations. But those credentials would neither test nor lead to the development of important competencies nor lead those who provided the courses to focus on such competencies. What is more, those who could pay and expect to recover the costs from increased personal income would be those who used the educational system most ruthlessly to promote their own advancement. Yet such are not the sort of people whom we should be appointing to senior management positions in our society. The people we need are those who are most committed to orchestrating communal action for the common good.

One could multiply examples of the deficiencies of public provision - in health, welfare, defence, and the management of agriculture and international trade (Rose, 1980; Klein, 1980). At a more micro level, the inability of public servants to act in the public interest is well documented in Chapman's book Your Disobedient Servant, (1979). However, in concluding this section, we may return to, and underline, the need to do more to examine the linkages between one area of policy and another.

The policies which are currently enacted tend to be domain specific. Thus, the way we provide for social security creates the subjection of large numbers of people to a demeaning and dehumanising way of life which kills initiative and enterprise. The way we provide health care separates it from agricultural policy, housing policy and environmental policy including job design and transportation. As a result, we spend a lot of time treating diseases which are caused by the over-consump­tion of milk and beef products, themselves produced as a result of specific agricultural policies, and diseases caused by pesticides or hormones the use of which is encouraged by agricul­tural policy. We spend a lot of time treating depression caused by neighbour­hoods which breed isolation. We urgently need to find ways of involving more people in the community-support networks which could better cater for our pension, welfare, child-care, education, economic development, environmental quality, crime prevention and health needs, and do so in a way as to avoid implying that such activity is not "real work" which merits financial reward (for a fuller discussion see Robertson, 1985 and Ferguson, 1980).

We treat the symptoms of stress caused by the way we organise work. And we treat accidents and lead poisoning caused by motor vehicles - the need for which in turn derives in part from the way we provide and finance housing (for this does not make it easy for people to find work near their homes). The way we allocate position and status creates a "demand" for expensive "education" which, in reality, confers few benefits on those concerned other than a passport to a protected occupation.

An economist's or a psychologist's solution?

The public has become increasingly conscious of the kinds of problems discussed above. They have found themselves increasingly unable to get public servants to act in the public interest or to get from public servants decisions which take account of all the factors which ought to be considered. This is why, in our quality of life surveys (Raven, 1980) we found that, while people were dissatisfied with their washing machines and cars, more dis­satisfied with the quality of the environments in which they lived, and still more dissatisfied with social, welfare, health and educational provision, they were most dissatisfied with their re­lationships with public servants and politicians.

Despite the fact that numerous surveys have shown that a majority of people in the UK do not want to abolish public provision and are willing to pay higher taxes in order to get better public provi­sion, it is the growing awareness of problems like those mentioned above which has fuelled public support for "privatisation". The next question we must address is, therefore, whether this represents anything more than clutching at a straw.

There is ample evidence that both large and small companies frequently fail to act in the public interest and are often anything but innovative (Sutherland, 1949; Roberts & Wainer, 1966; Bellini, 1980; Etzioni, 1984; Kanter, 1985; Ekins, 1986). The privatised legal system is anything but cheap, responsive to clients' needs or well suited to meeting their needs. Nor does it have a reputation for acting in the public interest. The reduced operating costs sometimes obtained by privatising services are often only achieved at the expense of the weakest members of the workforce. Indeed, special legislation has been introduced to enable the firms concerned to evade pension and social security requirements. Further "savings" are made by externalising the costs of monitoring and policing the activities of larger organisations such as telephone and transport. Breaking up large organisations does not necessarily make their services cheaper, more efficient or more responsive to customer needs; witness, on the one hand, what has happened as the provision of old people's homes has been turned over to small private landlords (revealing that, to exercise economic power effectively, one needs many non-economic powers) and, on the other, the fact that breaking up the
Ball telephone system in the US has increased costs to the consumer by a factor of three and deregulation of air travel, which at first reduced fares, later led to the concentration of 80 per cent of US air traffic in four companies and then to increased fares.

Other forms of privatisation equally offer no solution to the other problems we have discussed: one tends either to create vast private monopolies in place of public monopolies or to create private organisations which are dependent for their continued existence on the patronage of one or more public servants or public service departments. The problem of monitoring and running them - and stimulating innovation and consumer responsiveness within them - remain.

In the light of these observations it would seem that faith in privatisation is misplaced. The solution to the problems which plague us will be provided by psychologists, not economists.

**Acting on information received**

The basic problem is to find ways of ensuring that public servants act on information, in an innovative manner, in the public interest. I would suggest that this is to be achieved by introducing new staff appraisal systems and a new institutional framework which will make it easier to supervise the activities of public servants and ensure that they act in the public interest.

Paradoxically, despite the fact that the UK has, by international standards, one of the highest levels of awareness of these problems - as well of others which might be termed the "green agenda" - it is unlikely that the solutions will evolve here, because we have one of the lowest levels of interest in innovation, doing new things, finding new ways of doing things, doing things efficiently and effective management. Our organisational structures do not promote innovation and encourage our members to pay attention to clients' needs. Structures of promotion do not ensure that it is in the employee's interests to act with the long term needs of the organisation or its clients in mind (Freeman, 1975, 1974; Raven, 1984c; Kanter, 1985; Graham et al., 1987).

Finding ways of overcoming these problems and fostering the concerns, and creating the structures, which would help us to resolve this dilemma and re-lease energy to promote social innovation is clearly yet another specifically psychological task.

I would like to suggest that it is crucial to the future of the world as we know it to find alternative ways of solving the problems highlighted above. There is ample evidence (e.g. in the writings of Robertson (1985), Ekins (1986), Thurow (1983) and George (1988)) that the economic marketplace does not work in the public interest and that we have built our standard of living on economic processes which are non-sustainable. To give effect to information on the long-term social, ecological, physical and environmental consequences of alternatives we must find ways of making managed economies work.

If we are to do this we will need to develop new expectations of public servants, new criteria against which to judge their performance (such as "it is important to take innovative action in the public interest"), new appraisal tools to assess their performance against these criteria, bureaucracies and their functioning, how to think of the relationship between bureaucracy and government, new forms of democracy which enable us to ensure that politicians and public servants are more inclined to act in the public interest, new concepts of citizenship and new concepts of wealth and wealth-creation. All of these are essentially tasks for psychologists.

If the kind of innovation in the social process envisaged above is to come about, there is a need for an unprecedented public debate about the goals of society, the state of that society and what is to be done about it. This debate cannot take place without the assistance of the media, and those who take part in that debate need some mechanism through which they can make their views known. Modern information technology (such as Valet) makes it easy for people to vote from their living rooms. But the value of feedback of this sort is not only dependent on the dissemination of information. It is also dependent on psychologists' developing sets of survey questions which yield more meaningful results than those obtained from opinion polls. If meaningful conclusions are to be drawn from such data it will also be necessary for those concerned to develop understandings of democracy which do not imply that majority decisions should be binding on all, but which instead imply that some means must be found to enable people with different priorities to get equitable treatment, geared to their priorities, from the public service.

Furthermore, the time required for many members of the population to engage in the kind of participative - as distinct from representative - democratic process required to oversee the public sector activities which dominate our society will be considerable. It is therefore important to note that such civic activity contributes to the efficiency of our society and the quality of life of all. In other words it is wealth creating activity. It therefore merits financial reward. (In order to discourage immediate rejection of this possibility it should be noted that the costs of operating the economic marketplace are enormous: two thirds of the cost of the average articles goes on distribution and marketing. Yet this work - unlike the chore of supervising the public sector - tends to be viewed as contributing to wealth creation.)

**Implications for psychologists**

My objectives thus far in this paper have been to show that modern society needs psychologists to:

- carry out evaluations of a wide variety of public policies, to identify barriers to their effective operation and to contribute to the invention of better policies;
- examine the workings of the public sector as an organisation;
- develop the tools required to administer diversity in policy and provide feedback from each group of clients;
- develop the tools to take stock of organisation in the public service, and for staff appraisal, staff guidance, placement servants pay attention to, and take action on, the information provided; (ii) public servants can get credit for exercising high level competencies and (iii) the public service - for which most of us now work either directly or indirectly - can make the best use of the available talent in energetic, innovative, activity;
- above all, to contribute to the evolution of new concepts of democracy, the public service, the role of the public servant, wealth, wealth-creation, work and citizenship.

These observations have major implications for the kind of research we see ourselves undertaking, the criteria we apply to research proposals and the products of research, the institutions we seek to establish to carry out that research, the relationships we seek to establish between researchers and policy makers and the public, and the
may never have been discussed with pupils or parents and may therefore not have their support. And employers and universities may still be selecting their entrants on the basis of conflicting criteria. Under such circumstances, what is required is an evaluation which (a) uses the available evidence to infer what the effects of properly developed inputs, in various contexts, would be likely to be; (b) identifies the barriers which are preventing the programme being more effective (and it is important to note that many of these barriers may have their origins in the sociological functions which schools perform for society rather than the educational process itself); and (c) attempts to evaluate outcomes which it would require a considerable investment in fundamental research (based on yet-to-be invented psychometric models) to evaluate properly (a fuller discussion of these issues will be found in Hamilton, 1977; Raven, 1984a, 1985; Eisner, 1985).

An evaluation which does not endeavour our comment on (i) all important outcomes of an educational process (including both the positive and negative outcomes), (ii) all important barriers to the effective implementation of the programme - whether deriving from resources, psychological and pedagogic understanding, or sociological processes, and (iii) the crucial steps needed to make progress, is hard to justify. Evaluators who fail to cover the ground because important variables are "intangible and hard to measure" commit crimes against mankind - because this will mean that significant programme benefits and failures, and real barriers to diffusion and dissemination, are overlooked in all subsequent discussion of, and decisions about, the activity.

It emerges, therefore, that, while the hallmark of good academic research may well be accuracy, the hallmark of good evaluation is comprehensiveness. A good policy study is one which yields new understandings and insights and points the way forward. In such a context, it is inappropriate to judge the work of an individual researcher against the criterion of "proof beyond reasonable doubt". What is needed is a contribution to a public debate which will advance understanding. It is the process of science which leads to accurate and complete understanding, not the work of an individual scientist. Instead of asking whether a researcher's conclusions are beyond dispute, we must ask whether the work yields new insights, information and understanding. What is needed is public debate between scientists all hotly pursuing "the same" issues. It therefore seems that Eisner's (1985) emphasis on the "art" of educational evaluation and "educational conscience", while important in legitimising the kinds of activity advocated here, is unfortunate in that it fails to challenge the concept of science which informs most academic thinking - and especially that of the Joint Committee on Evaluation. Likewise, it emerges that "administrators' concern to avoid duplication" is as misguided as their quest to initiate research which will give unarguable answers to clearly defined questions. As a profession, we therefore need to encourage those who control the funding of policy-relevant research to fund research into important issues even when neither we nor they know how it is to be done and even when it is clear from the start that the conclusions will be debatable.

Although many people will find what has been said disturbing, it is important now to share another insight which has emerged in the course of 30 years of policy research. This is that such work regularly points to the need for studies of, and public debate about, fundamental social values, political beliefs and beliefs about the operation of the public service itself. A few examples will illustrate the point.

As has been indicated, studies of educational policy pointed to the conclusion that one of the main reasons why a great deal of the money spent on secondary schools is wasted is that our preoccupation with equality prevents us respecting and fostering the wide variety of value-based competencies which exist. To handle the problem we need both to legitimise the provision of variety in the public sector and to respect individual pupils' rights to opt out of programmes which they do not find congenial (Raven, 1988a,b).

In a similar way, studies of values, attitudes and institutional structures associated with economic and social development pointed to the conclusion that understandings of how society does and should work - i.e. social and political beliefs and expectations - are of fundamental importance. It emerged that, in Britain, we need new understandings of terms like "management", "participation", "democracy" and "wealth". An attempt (Raven & Dolphin, 1978; Raven, 1984a) to develop the socius required to measure qualities like initiative, leadership and the ability to work with others suggested that, as psychologists, we need new psychometric models which give pride of place to values, even political understandings. To assess these qualities we need to
find out what the person concerned values and what he or she believes about how society works and understands by such terms as 'democracy', 'management' and 'participation'. Yet, although both the continued tendency to recruit ex-public school pupils for important positions and MSC's ban on political education in its enterprise development programmes testify to the validity of the proposition that competence is crucially dependent on these beliefs, the notion that the assessment of competence involves the assessment of values and political beliefs is, in view of the moral dilemmas it rightly raises, deeply disturbing. An evaluation of a pilot programme of school-based teacher education (Raven, 1987b) suggested that one of the chief barriers to effective teacher education is the concept of the role of institutions of higher education held by the Scottish Office, the institutions themselves, and the public in general.

I want to emphasise that these are scientific conclusions, not political positions. More than that, they are conclusions drawn from specifically psychological research. New, specifically psychological, understandings and tools are required if progress is to be made. While the accusation of going beyond science to draw political conclusions is now mainly levelled at the social sciences, Galileo's experiences testify to the fact that this has not always been the case.

In saying that these are scientific conclusions, I do not mean to imply that I think they are beyond dispute. On the contrary, the one thing a scientist knows for certain is that s/he is wrong. The emphasis is placed on the attributable quality of these conclusions is diversionary. The real problem is that they upset our view of the universe. The result of this has been that, even though, in retrospect, our sponsors have often been inclined to agree with our conclusions, they have still found themselves unable to support the research which would be required to substantiate them or find ways of tackling the very problems which led them to approach us in the first place. Perhaps even more importantly, conclusions like these disturb those of our fellows who referee applications to funding bodies like the ESRC. Unless we, as a profession, address these issues, we will continue to behave in the dysfunctional way described by Rothschild. That is why it is so important for the whole profession - and not just those of us who have been contaminated by the experiences we have had as a result of dabbling in this area - to consider the issues I have raised in this paper.

If what I have said is correct, and if we are to encourage useful evaluation, it will be necessary for us, as profession, to:

1. Change our beliefs about the outcomes which it is appropriate to expect from the research process.

2. Change our beliefs about the topics that it is appropriate for researchers to study.

3. Change our beliefs about the research process - so that it comes to be seen as appropriate for researchers to follow up, and write up, unexpected observations made in the course of their research and so that further research to follow up unexpected re-orientations can be funded.

4. Do much more to protect researchers who stumble into new areas and find themselves in conflict with the assumptions of those who control funding.

5. Most importantly, emphasise that effective applied research almost always involves a considerable amount of fundamental research - fundamental research, the importance of which academics who do not have contact with applied problems will be most unlikely to see. Or, put the other way round, academic life is not ideally suited to the task of stimulating new lines of fundamental research or paradigm shifts.

We have seen that we now live in a society which is managed by people (and not by the economic marketplace) and that management is based on beliefs and explicit information. We have seen that the main actors on this stage are public servants. It is they who mainly decide what information will be collected and how it will be presented to politicians and the public. It has not been shown that prices are mainly determined by public servants, nor that public servants manage trade as a result of their control of tax structures (i.e. that they use money as a management tool instead of allowing money to manage the economy) but these things are also true. And it has been shown that government is grossly overloaded and that the form of representative democracy to which we have become accustomed is no longer viable (Raven, 1984a,b,c).

Our earlier discussion, and these observations, point to the need to:

A. Develop tools which will make it possible to hold public servants accountable for such things as:

- considering the needs of their clients and inventing better ways of meeting those needs;
- considering, and taking appropriate action in the light of, the long term social consequences of the options available;
- initiating the collection of relevant information, including information on the worldwide social consequences of potential courses of action;
- seeking out, and using, the information which is available and using it to come to defensible conclusions about the course of action which is in the long-term best interest of the public and each of the sub-groups of which it is composed;
- creating organisational, community, and societal climates characterised by innovation, efficiency, and dedication to the public interest.

B: Develop mechanisms which make it possible to:

- stimulate public debate about issues varying from those of concern in local workplaces, classrooms and communities to those of international concern;
- weight the opinions of those concerned to allow for the fact that some views deserve to carry more weight than others (the uninformed should not be allowed to impose their values on others who have quite different priorities and concerns);
- ensure that both public servants and others who have a significant impact on what happens in society consider the available information and come to justifiable decisions about what is to be done.

These two sets of problems call for the establishment of a number of units charged with the task of developing the concepts, tools and institutions which are required to, for example, administer choice in education and housing. We need tools which can be used to give public servants credit for engaging in the difficult and demanding business of innovation, which can be used for staff guidance, placement and development (so that our managed economy can make the best use of the human resources which are available to it) and which can be used when deciding whom to appoint to senior management positions.

I have to confess to being less clear about precisely what research should be initiated to contribute to the evolution of the new concepts of democracy, bureaucracy, wealth, management, participation and citizenship which are
required. But this is clearly an area which urgently needs to be probed. Two specific suggestions are: one, to experiment with techniques of television-based debate and feedback, two, to initiate an international project which would involve psychologists from different countries spending significant amounts of time in each other's countries, not reviewing research, but using the contrasts between those countries to surface embedded concepts of how information should be collected and used and how decisions should be taken. It strikes me, for example, that these assumptions are very different in Norway, the UK and Japan.

It will be clear by now that useful policy-relevant research is very different in nature from what has in the past commonly been assumed. The structures required to achieve execution and the framework of expectations within which it is carried out are also very different. Classical, but still highly relevant, discussions of these issues have been contributed by Cherns (1970), Donnison (1972) and Freeman (1973, 1974).

At an absolute minimum we need to press for the establishment of a number of units to work in this area. These units should not be university-based, because the criteria to be applied to the researchers' work are so very different to those appropriate in academe. Academic time scales are also inappropriate. Teams of researchers need to be able to devote their full time to the work and they need to be provided with an assured career structure which does not require them to conform either to traditional bureaucratic or academic criteria. While there needs to be sufficient contact with policy makers for the researchers to become thoroughly familiar with the problems which need to be tackled, researchers need consider able scope to determine the way in which they will tackle them and to follow up new issues which come to light. There also needs to be some mechanism whereby people who are "peripheral" to mainstream decision-making can initiate studies and ensure that they are carried out from their own perspective. These reflections suggest that, instead of being accountable to administrators, researchers should be accountable to a Director who should him or herself be accountable for creating a climate of innovation, dedication, the development of new understandings and ideas and the development of new tools which can be used to run the public service customer more effectively. The tendency to assume that applied research can be effectively carried out by researchers who are individually on short-term contracts tied to short-term project funding has proved to be a recipe for disaster and, in any case, bears no resemblance to what Rothchild had in mind when enunciating the customer-contractor principle.

As far as the UK is concerned, it is important to underline the scale of funding which should be envisaged because the string and sealing-wax of grants provided by the SSRC/ESRC have led psychologists - and especially university-based psychologists - to have quite inappropriate expectations. More appropriate standards for funding are to be found in the Government Social Survey, where it is not uncommon to find £250,000 being devoted to projects with very limited objectives. The extent of the underfunding of policy research can also be judged from the fact that two years' losses of the British Steel Corporation would have funded the Scottish Council for Research in Education since Stonehenge was built. Yet far more of our national resources are devoted to - even misapplied in - education than steel.

But I do not wish to give the impression that things are better in America. I know of nowhere in America where I could have carried out the research I have in fact been able to carry out, even though it has been carried out under extremely unsatisfactory conditions. It is therefore important to challenge the US contract-research model. An outsider cannot help noticing that, although the funds slooshing around are astronomical by our standards, and although hundreds of thousands of people are employed, the actual contribution to advance in understanding is often extremely small. This is attributable not only to the belief that public service customers are able to identify research needs but also to widely held views about what constitutes good research. In saying this, I have the Joint Committee's Standards for the Evaluation of Educational Policies and Projects very much in mind.

Beliefs, expectations and understandings to be fostered in undergraduate education

The very different beliefs we need to develop about what constitutes science, psychology, good research and, especially, the role and nature of policy research and evaluation have already been discussed. It remains to emphasise how important it is for the universities to encourage students to develop more appropriate expectations.

But perhaps the most important message for the universities to disseminate is that what society most urgently needs is not a new set of specific policies in health, housing, incomes, pricing, management, labour relations, third-world trade or whatever, but policy development units and, especially, units set up to develop new concepts of bureaucracy and democracy and the tools which are required to run them more effectively. Psychologists have a major role to play in these units. We know more than anyone else about organisations, institutions and tools of policy appraisal and performance assessment. One urgent task is to get the establishment of such units onto the agenda of at least two of the major political parties.

These may sound like grandiose claims, but it must again be emphasised that we are all living in an economy which is quite unlike that which most of us take it to be. Our claim as psychologists must therefore be, not that we can help to introduce some Utopia, but we can help society to do better that which it is already doing.

Notwithstanding the strength of this argument, the question of how all this is to be paid for will still be raised. The answer is to be found in the previously mentioned fact that some two thirds of the cost of any article is spent on distribution and marketing - that is, on making the economic marketplace work. An effective managed economy, in which most of the necessary information was contributed by psychologists - and not by financiers or "economists" - could hardly cost more to administer. And, in pressing this case, use should also be made of our earlier observation that such activity would constitute genuine wealth-creating work.

This paper evolved out of addresses presented to the Society's Conference on the Future of the Psychological Sciences at Harrogate in February 1987, and subsequently to the XXIV International Congress of Psychology, Sydney, Australia in 1988. A brief version of the latter is to be published in the Proceedings of the Congress (Volume 8), Elsevier 1989.
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I am indebted to Bryan Dockroll, Stanley Nisbet and my wife for their assistance, over many years, in preparing this article.

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The Psychologist November 1989
Disastrous Effects

In addition to work with people directly affected by disasters, psychologists are also carrying out important new research into the adverse effects suffered by rescue workers. Geoff Lowe reports.

The destruction of communities and the magnitude of death and injury is often more substantial in a natural disaster than in those resulting from technological failure or human error. Douglas Paton, a Chartered Occupational Psychologist from the University of St Andrews, has been focussing particularly on the relief workers who went out from Britain to help in the aftermath of the Armenian earthquake in December 1988.

Dr Paton is an adviser to the International Rescue Corps, and is concerned about whether these volunteers - and, indeed, full-time emergency service workers - are adequately prepared either physically or psychologically for the tasks they have to perform. His findings reveal that many of them have symptoms relating to Post-Traumatic Stress Disorder.

Monkeys Face Brain Tests

Brain researchers have discovered neurons which respond only to faces and hairstyles. Vincent Walsh reports.

Yamane, S., Kaji, S. & Kawano, K. (1988). What facial features activate face neurons in the inferotemporal cortex of the macaque? Experimental Brain Research, 73, 209-214.

Small populations of neurons in the temporal lobe cortex of the macaque have been shown to be selectively responsive to faces. Some neurons display different firing patterns according to the orientation of the face stimulus and others to the direction of gaze of the face stimulus. However, it is not clear which particular features or configurations of features are important for face neurons.

Yamane et al recorded from 446 neurons in the inferotemporal cortex of a macaque monkey, with 21 responding exclusively to faces. These face neurons were presented with 62 faces which were controlled for various facial features (e.g. nose length, jaw width, inter-eye distance). Multiple regression analysis showed that the neurons responded best to particular combinations of features. The most important ones were inter-eye distance, eye to mouth distance, and hairstyle.

While previous studies have located face neurons in the banks of the superior temporal sulcus (STS), Yamane et al recorded from the inferotemporal gyrus (ITG). They suggest a possible processing route from ITG to STS.

Business Types

Are extroverts more successful in business than introverts? Mark Parkinson reports.

Rice, G.H. & Lindecamp, D.P. (1989). Personality types and business success of small retailers. Journal of Occupational Psychology, 62(2), 177-182.

The possibility of predicting business success by using a specific questionnaire or battery of personality tests has intrigued occupational psychologists for a number of years. In North America particularly, a great deal of effort has been invested in trying to define entrepreneurs in terms of certain sets of traits or as particular types.

Rice and Lindecamp have recently attempted to correlate the Jungian personality types of the owner-managers of small retail stores with their business incomes - income, in this case, being the only "success" indicator used. The "personality" of 102 owner-managers was determined by using the Myers-Briggs Type Indicator and three main hypotheses tested. Namely that extroverts would be more successful in business than introverts; and that either thinking-judging types or thinking-sensing types would also be more successful. In Jung's terms thinkers are people who base their decisions on logic and objective analysis; and sensors are those that focus on the present and concrete information gained through their senses.

The researchers found no convincing link between a particular Jungian personality type and business income. However, there was an indication that introverts were likely to make more money, but were less efficient than introverts in deploying it, i.e. by taking on employees.

The point is also made that Jungian criteria constitute continua. This means that it is possible for a person to fall near the centre of a scale, only slightly into the extrovert division for example, and receive the same classification as an extreme case. As Rice and Lindecamp suggest, this particular problem with the Myers-Briggs could well distort the findings.

The Psychologist November 1989 467
Do We Think We Have More Personality Than Others?

Are traits things we see in others but not ourselves - or vice versa?

Anthony C. Edwards reports.

Sande, G.N., Goethals, G.R. & Radloff, C. (1988). Perceiving one’s own traits and others: the multifaceted self. Journal of Personality and Social Psychology, 54, 13-20.

It was once believed that we see ourselves as possessing fewer traits than other people. Evidence supporting this view came from research in which subjects were presented with pairs of trait-names, and, for each pair, had to indicate which was the better description of various people. Permitted to say “Depends on the Situation”, subjects did this most frequently when judging themselves.

Low Verbal IQ Drinkers

Drinkers with low verbal intelligence could end up with more alcohol-related problems. Geoff Lowe reports.

Windle, M. & Blane, H.T. (1989). Cognitive ability and drinking behavior in a national sample of young adults. Alcoholism: Clinical and Experimental Research, 13, (1), 43-48.

The impaired neuropsychological performance among social drinkers and alcoholics is well documented. However, some newer research is being directed towards cognitive deficits that may precede the onset of systematic heavy drinking and which may function as risk factors for subsequent alcohol abuse and alcoholism.

Michael Windle and Howard Blane, of the Research Institute on Alcoholism, Buffalo, USA, undertook a national study of adolescents. They looked at verbal intelligence in relation to alcohol consumption and to three alcohol problem areas - dependency symptoms, aggressive behaviours, and job problems.

Contrary evidence was found in several experiments by Sande et al. Subjects were required to perform a similar task - but, in place of a “Depends” option, were allowed to answer with “Both” or “Neither”. They answered “Both” for themselves more than for acquaintances, and for liked others more than disliked others. This suggests we see ourselves as possessing more traits than others. This could reflect a tendency to see more traits in people we regard highly - assuming, of course, we have considerable self-respect.

With regard to alcohol consumption, abstainers manifested lower verbal intelligence scores than drinkers. However, among drinkers, lower verbal intelligence was associated with more alcohol problems. With influence of socioeconomic status statistically controlled, lower verbal intelligence still predicted alcohol problems, but not alcohol consumption. The effect was robust across gender and age groups.

These studies suggest that alcohol-related neuropsychological research might benefit from assessment of cognitive behavioural functions associated with verbal intelligence, such as social judgement and social skills. Such an evaluation may shed light on the differential risk for drinkers with low verbal intelligence.

Oral Intelligence Tests?

Mark Parkinson reports on the potential validity of structured interviews.

Wright, P.M., Lichtenleis, P.A. & Pursell, E.D. (1986). The structured interview. Additional studies and meta-analysis. Journal of Occupational Psychology, 62, (3), 191-199.

The interview is the most popular industrial selection technique. However, this enthusiasm is not matched by its validity - the degree to which it predicts future performance. A comparison with other common selection techniques places it last after cognitive ability tests, assessment centres, biodata and reference checks.

Wright et al have examined recent evidence on structured interviews. These centre on job-related questions with predetermined answers that are applied across all interviews for a particular position. For instance, it can be determined how an applicant would respond to various situations, and also how similar situations have been dealt with in the past.

A comparison of the structured “situational” interview with the more traditional shows it to be superior. A number of reasons for the improved validity are suggested. First, structured interviews are based on a thorough job analysis and so unrelated questions can be avoided. Second, the assumption is made that individuals’ intentions are influenced by past behaviour. Finally, the structured interview may work as a sort of “oral intelligence test” and hence a significant correlation with cognitive ability tests. Thus there is perhaps no need to use both in selection.
Conference Reports

Discovering Cumulative Social Science

Ian Donald reports on the Second International Facet Theory Conference held at the University of Surrey from 4-6 July 1989.

Facet theory is an approach to research devised and developed by the late Professor Louis Guttman. The approach has mutually exclusive conceptual facets, forming a very clear and precise framework for understanding data. One of its aims is the development of a cumulative social science, and the conference demonstrated that facet theory really does provide for cumulative social science research.

There was a free exchange of ideas amongst the 40 or so scientists present, and it emerged that differing domains of research had facets in common, though often with different names. These facets could also be easily transferred to another area. For example, a facet concerned with the level of interaction a person has with their environment is tapping the same psychological processes as a facet concerned with motivation for having dental treatment.

There were many interesting papers, and one which particularly caught the attention of the audience was presented by Ruth Guttman of the Hebrew University of Jerusalem. Herself a geneticist, she presented a paper entitled “Pharmacogenetics of Agnostic Behaviour in Male” which was then discussed by an engineer, Shlomo Waks, with contributions from social psychologists, a sociologist, a methodologist and, if I recall correctly, a political scientist.

A paper by D.C. Heritage and David Canter entitled “A Partial Order of Criminal History and Offence Location of Serial Rapists” demonstrated some of the newer developments in analysis methods associated with facet theory. It also showed that they can be used to include temporal developments in behaviour in a clear and structural way, and that facet theory has a contribution to make to applied decision-making.

The conference also revealed developments in methodology and computer programs. Margaret Wilson’s paper “The Development of Architectural Concepts” not only showed cumulative research at work, but provided a fine example of the application of the multiple sorting task, and the strength of facet theory and its associated analysis techniques in dealing with qualitative data.

An enormous diversity of topic areas were covered by the conference. While the participants came from many areas of science, they had in common their use of facet theory, and their belief in its value for advancing science, and this overcame the boundaries created by the various disciplines. The conference was organised into six symposia, but these boundaries became meaningless as the conference progressed.

The hallmarks of a truly developing science include the development of cumulative research, and the evolution of unifying concepts and ideas, which cut across disciplinary boundaries. If this is the direction in which we wish the social sciences to progress, facet theory has a major role to play in our future.

Dr Donald is an Associate Lecturer and Senior Research Fellow in the Department of Psychology, University of Surrey.

Gender and Knowledge Workshop

This was the first joint venture between the Psychology of Women Section and the History and Philosophy Section - and already people are asking “When’s the next one?” The meeting was built around the visit of Professor Rhoda Unger to the UK, thanks to a grant from the SAB. Sue Wilkinson reports.

Rhoda Unger, of Montclair State College, New Jersey, is widely regarded as one of the leading psychology of women scholars in the USA, particularly for her work on feminist and personal epistemologies and the social construction of gender. We were fortunate that her visit to London coincided with that of Michele Wittig of California State University at Northridge, who is particularly interested in the area of sex equity. Our American guests were complemented by two British speakers: Wendy Hollway (University of Bradford) and Helen Haste (University of Bath).

The programme for the day was relatively informal, with the emphasis firmly on discussion. We aimed to generate an atmosphere which would encourage everyone to take part - and seemed to succeed: the discussion was both varied and lively.

Professor Unger focused on the distinction between “sex” and “gender”, dismissing the traditional biological/socio divide; her talk demonstrated graphically the ways in which biology is socially constructed and the apparent arbitrariness of gender attributions. Professor Wittig presented a metatheory for a psychology of gender, arguing the need for the reconciliation of “scientific” and “feminist” values. This began an extensive discussion on the nature of science and the extent to which it is inherently masculine.

Wendy Hollway emphasised the conditions of production of psychology, and the way in which the scientist-subject splits reproduces male-female power relations. Once this position is constructed, however, it becomes possible to propose an alternative “emancipatory” psychology. Helen Haste extended these arguments in her exploration of the ways in which gender is mapped onto changing views of knowledge. She demonstrated how male thought is always associated with the culturally dominant “way of knowing”, while female thought is seen as the alternative. The discussion surrounding these two papers began to explore the possibility and the nature of an alternative “feminist science”, which would pay due regard to a range of structural inequalities as well as to the multiple perspectives of its participants.

Sue Wilkinson is Principal Lecturer in Psychology and Head of the Psychology Section at Coventry Polytechnic.
One Day (and a bit) at the BA

Stephen White reports on The British Association for the Advancement of Science Annual Conference with its 3,000 delegates, over 200 journalists and a programme running to over 80 pages.

This year’s romp through contemporary science was in Sheffield from 11-15 September, and I went for a day and a bit.

With such an enormous programme I had to be selective, so on day one I picked up on part of the Section X (the BA is just as sectionalised as the Society) symposium on the Public Understanding of Science, which included two brilliant performances. First, Professor Colin Blakemore from Oxford romped through the whole subject - surveys of public ignorance, exhortations about why science was so central to modern life, and various ideas about how the levels of ignorance could be improved.

One of his suggestions was to introduce a new compulsory science education for all school children. He said that it must be:

- A science not based on the present compartments of chemistry, physics and biology, but a science which showed the links between all the compartments.

He continued that the core of this new science should be biology and psychology:

- biology because of reductionist and expansionist principles, and psychology because of its relevance to the student’s everyday life.

Professor John Durrant - the professor of the public understanding of science then revealed the latest survey on public ignorance and attitudes to science. His survey included a simple quiz about scientific facts. Nearly everyone got right that hot air rises, but when it came to a true or false statement about whether antibiotics kill viruses as well as bacteria, over two thirds got it wrong - which probably explains the size of the NHS drug bill.

My next dip into the programme was the Section J (the Psychology Section) symposium on emotion, led by Professor Keith Oatley. Dr Glenny Parry gave the final paper on “Emotional Stress: How can others help us bear it?” and gave results of some new research she has carried out in Southampton on a group of women who had suffered the sudden death of their husbands.

In her general discussion of stress she carefully explained the notion of self to her non-psychology audience and illustrated it thus:

- A White Horse goes into a pub and orders a pint of bitter.

The barperson is somewhat surprised and says “I would have thought you would have had a whisky.”

The White Horse is somewhat non-plussed and asks why.

“Well,” says the barperson, “they’ve named a whisky after you.”

The White Horse looks very puzzled. He says “What do you mean - is there a whisky called Eric?”

Part of her research showed that sufferers often rejected help that was offered and gave as one of the reasons that the sufferer believed the person offering help felt “obliged”. I postulated that this explained the low regard held for social workers (and clinical psychologists) by the public.

I finished up my BA visit by sitting in on a workshop by Geoff Deehan and Peter Evans of the BBC Radio Science unit on radio interviewing skills, techniques and tricks of the trade. As expected it was highly informative, brilliantly presented and as professional as they could manage without a full studio setup.

The most memorable moment was a volunteer interviewer from the audience trying to get Colin Blakemore to answer any question thrown at him. Professor Blakemore had been told to be as difficult as possible, and he succeeded - one question was how to spell the name longer than the word itself. He then went on to give a workshop on “Public Understanding” the average age of the audience was in the range of 50, but in the psychology symposium on emotion it was more like 20.

Stephen White is Director of Information with the Society.

AIDS and the Nervous System

Psychologists need to be aware that AIDS as an illness can directly attack the nervous system. Vincent Egan reports on a conference on “The Neurological and Neuropsychological Complications of HIV Infection” which took place in Quebec City, Canada, from 31 May - 3 June 1989.

The AIDS dementia complex (ADC) sometimes follows the infection of the brain by the human immunodeficiency virus (HIV). Damage in subcortical regions of the brain can lead to impairments in memory, attention, fine motor control, and the speed of basic functions. This conference, a satellite event prior to the fifth International Conference on AIDS, drew together the psychologists, neurologists and psychiatrists interested in the nature of the ADC. It was very necessary given the chaos of the subsequent conference, which had over 11,000 delegates!

The ADC as a common presenting symptom of HIV infection, even in early stages of the illness, appears rather less common than once suggested. Well-controlled studies with conservative criteria of neuropsychological and neurological impairment are now replacing some of the disturbing reports that were initially published. Subclinical impairment may be seen, but the fear of dementia raised by the early studies shows that researchers must be cautious when reporting such worrying results.

Dementia in the American AIDS cohort of 39,332 people in the Centre for Disease Control, Atlanta, Georgia. He found that only 3 per cent of individuals with AIDS had the ADC as a presenting symptom of their illness, and only 6.5 per cent of adults (and 11.5 per cent of children) developed this complication. The incidence of ADC appears bimodal, with peaks for children under five years, and adults over 70; presumably this is because of the vulnerability of the young and older brain to progressive insult.

Marilyn Albert reviewed the neuropsychological studies of people with HIV and noted that no studies show vocabulary or mathematical deficits in patients; this implies that learned knowledge is largely unaffected. Tests that discriminate impaired from non-impaired patients, sometimes at quite early stages, are those involving memory (the Auditory Verbal Learning Test); sustained or divided attention (the Trail-Making test;
News

"Hotline" in Hong Kong

The military crackdown on the pro-democracy movement in Beijing, China, on 4 June 1989, galvanised psychologists in Hong Kong to respond by offering a telephone "hotline" service for people suffering from post-traumatic stress. David Lam reports.

The hotline was set up as a counselling and referral service, and was especially targeted to those recently returned from China who witnessed the extensive bloodshed around Tiananmen Square. This was a joint project of the Psychology Department at Hong Kong University and the Division of Clinical Psychology of the Hong Kong Psychological Society, and all services and facilities were donated free of charge.

The hotline was publicised by posters, press releases, and radio and television talk shows. A briefing seminar was also held for participating psychologists and trainees concerning the symptoms and treatment of post-traumatic stress reactions.

The service ran from 8-21 and was operational during office hours including Saturdays. It was staffed by nine clinical psychology trainees, working in two-person teams, who conducted the initial assessment and provided informal counselling to callers.

The trainees were supervised by a university lecturer. Backing up the hotline were more than 20 clinical psychologists who were prepared to see the more seriously disturbed call-ericks in individual sessions.

During the two-week period of the hotline a total of 70 calls were received, broken down as follows:

"Returnees" from China
Hong Kong residents distressed over events in China
General requests for psychological assistance or information
Media inquiries
TOTAL (percentages)

5 (7%) 12 (17%) 29 (41%) 24 (34%) 70 calls were rounded (99%)

Only five calls were received from the primary target group, all of whom were referred for individual appointments.

The hotline also referred to participating psychologists seven of the twelve callers who were not China "returnees" but were disturbed enough about the Beijing crisis to need counselling. The relatively low response rate from these two groups might have been due to certain unique features of the Beijing crisis, including its ongoing nature (eg., arrests and executions) and political sensitivity.

The hotline was rather more successful in a wider sense: its publicity generated numerous calls (41%) of a general nature (ie., not related specifically to China), involving requests for assistance or information, whilst enquirers from the media accounted for another third of all calls.

The hotline project raised several broader implications of community mental health in Hong Kong (eg. Lam & Ho, 1989). Space does not permit a discussion of these issues here, but it is worth mentioning that the hotline achieved some success as a community service, enhanced the public perception of psychology, and provided an action vehicle for concerned psychologists. A follow-up educational booklet on post-traumatic stress reactions will soon be distributed widely to the Hong Kong community.

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Dr Lam is with the Department of Psychology, University of Hong Kong.
John Morton reports

The anatomy of a hooligan

No, not the result of a backstreet carve-up but a headline in the Sunday Mirror on our logo. A previous article featured David Nias and our own backstreet occasional and GPR supporter George Sik. "Britain's parents are to blame for the say top psychologists." It makes a change from the throw-them-all-in-jail brigade. Aggression in the family, lack of love as well as the older favourite lack of discipline all get a look-in. No-one attempted to provide any answers but at least the Mirror took half a page to try and explore the causes.

A Page 3 exposure

This time in the Graduate Post, a freebie I had never heard of. A second-hand copy of the page in question was pushed through my letter box by a forlorn figure escaping from the married hordes of Birkbeck (if you don't read THIS JOURNAL regularly, don't bother to try to understand). Well, not many of us have achieved a full page spread with photograph. It is a curious profile, not without its charm. On the one hand "David Lewis is also a Seventeen scholar and on the other he is quoted as saying 'I'm much too silly to be an academic'." On the one hand he says "It's publish or perish in the academic world" and on the other we learnt that he has published books on 'stress, bringing up children and child development, graphology, the law, body language, sexual attraction, self assessment and fulfilment". He has done all this without the threat of perspiring and he only started doing freelance research four years ago! And you must understand that his books are "suggestions based on careful research". Take the much quoted BT advice of holding the phone to the right ear for facts and the left ear for intuitive listening. This "caused uproar in the British Psychological Society and led (sic) to angry letters in New Scientist. Dr Lewis remarks, "we set up an experiment and we found a difference". Woof, publishing the experiment in the British Journal of Psychology would certainly silence the critics of that one. Mind you, he has agreed to appear in a TV show celebrating the thousandth episode of Neighbours (what's that?) to discuss the programme's sociological significance having told the interviewer "that he had never previously watched it, and would have to swot up by talking to a friend."

That can't be what he means by research. No, it is playing the media at their own game "that is not a band of experts" (original quotes) to whom the media turn for evidence that a subject is serious. If they're going to fund him to do it, who's he to argue?" Who indeed?

Psychologists here and there

One of the 36 scientists short-listed for the British place on the June mission in '91 is Rupert England, a research psychologist at British Aerospace. Stephen Curran, of Leeds University is also reported to be in the running. Charlie Lewis (no relation) got half a page and place in the Reading Evening Post outlining his research on 15-month-old recognition of same sex walking patterns and getting a plug for subjects on the way. Peter Colquhoun, formerly at Teddle Poly, has bred Major Ivar, a four-time winner at Redcar.

YUP

Full marks to The Independent for getting some good quotes from psychologists while putting the boot in the Monty scheme for identifying Britain's 1,000 brightest children. Joan Freeman, who is President of the European Federation for Gifted Children, called the search "gimmicky and attention-seeking". Lea Pearson said of the test Mensa was using "It's biased, unscientific and anxiety-provoking" as well as racially and sexually biased and other psychologists jumped in the fun. Mind you, over 6,000 parents have entered their children at £8.50 a throw, and if you pass you get invited to join at £25 a year. The article points out that there are currently not enough rooms with an income (Mensa members will already have worked it out) of £25,000. According to the article they have over 350,000 in test fees since January! Pretty smart. Mensa agreed that the search was a stunt, but claimed that they were trying to do something for gifted children who were not getting on in school. The Observer focussed on this side of the story and quoted the anxieties of a number of individuals and groups. Angela Rumbold, the Education Minister, who I heard on Question Time giving a spiraled, confused and ultimately incoherent plea for capital punishment (so far as I could gather she actually wanted it for sex offenders as well), claimed that there was no problem. "Properly delivered, (the new national curriculum) should enable even the brightest pupils to advance at a rate suitable to their ability," I love that "properly delivered".

Research gradings

According to the New Scientist, overall science and engineering, computer science got the most top ratings in the University Funding Council exercise this year with nine, followed by physics with eight and psychology with seven.

The Burt Rehabilitation Society

The Guardian and the Observer published raving and positive reviews of Joyson's attempt to rehabilitate Sir Cyril Burt. Both reviewers, Clare Burstall, Director of the National Foundation for Educational Research and Stuart Sutherland, formerly host to serious scholar David Lewis in Sussex, seemed to take everything Joyson said as fact. Both allowed the Council of the Society endorsing Hearshaw's arguments. Sutherland writes with a childish glee that "the book... demonstrates that that August but risible body, the Council of the British Psychological Society was at one time full of eviscerated of nits." Burstall says Hearshaw's conclusions "were accepted (by Council) without further enquiry." Given that Leslie Hearshaw, a notable historian of psychology, had spent several years out of the limelight and started off having been invited by Burt's sister to write the official biography, this seemed a sensible thing to do. But was it? Burstall quotes Joyson "The errors are so frequent and widespread that they are highly likely to be discovered by anyone who sets out to check wherever they begin their enquiry." Twenty heavy stuff, particularly as Burstall admits to having read the Hearshaw book. (We don't know what Sutherland has read.)

What of Joyson? After all this, one would have expected him to double check everything. Let us take something in the public domain. Joyson takes on the Clarkeys who also played a part in the Burt exposure. They had claimed that Burt wrote and published these summaries in their own names making changes from the original. He alludes to but does not bother to suggest that if Burt were the supervisor for these theses, then he would have the right to change the summaries. He then tries to point out that Eysenck had no part in their supervision by, apparently, quoting from the acknowledgments in the two theses. He says, "neither thesis acknowledges any assistance from Eysenck whatever" (p.247) in a quote from the preface of Alan Clarke's thesis: "This investigation constituted part of a major research under the direction of Dr H.J. Eysenck and from that of Ann Clarke (the reviewer):" Dr H.J. Eysenck, who directed the major research of which this formed a part.... These remarks directly follow the acknowledgments to Burt which Joyson quotes. If he had actually looked at the prefaces, he could not have failed to see them.

Others will observe how such examples may be multiplied. I would just like to ask whether the reviewing of books on scientific subjects in the national press is a scientific or a literary and emotional matter?

Professor Morton is Head of the MBC Cognitive Development Unit in London.

Psychology on the Air

CHARMION BOLLINGER appeared on "The Health Show", BBC Radio 4 on 10 September, discussing the use of hypnosis in relation to sleep problems.

MARGARET CHARLTON, District Psychologist, Macclesfield Health Authority, appeared on BBC GMF's Breakfast Show on 20 August talking about Starkey and Hutch star, Paul Michael Glasser's experience of HIV and AIDS.

PETRUSKA CLARKSON appeared in "Prisoners of Childhood", a documentary on the work of Alice Miller, on Tuesday 30 May 1989 on Channel 4.

GLENYS PARRY was interviewed on the Today programme on 12 September about her work for the British Association for the Advancement of Science on counselling for post-traumatic stress.

DOUGLAS PATON has been interviewed on BBC Radio Scotland, BBC Overseas Service, Radio 4, SIR in Perth, Western Australian and Grampian Television on his research on the effects of disasters on helpers involved after the Armenian earthquake and the Lockerbie air crash.
Beatrice Heywood-Taylor discusses the art of creating a “safe-enough” environment for students to learn, with special reference to Rogerian student-centred learning. The opinions expressed are entirely those of the author and are designed to provoke discussion.

The Education Section statement on Psychology and Initial Teacher Training (The Psychologist, February 1989) says: “All teachers have to understand how their pupils’ minds work.”

I entirely endorse this view, but I also believe that the approach of any teacher is reflexive, in the same way that psychologists or psychotherapists adopt models which complement their own personalities.

Since 1979, I have worked with young people in experiential groups on YOPS and YTS courses, as well as teaching “Communications” and “Interpersonal Skills” in different parts of Surrey. Almost without exception, these students have told of traumatic experiences during their school years, often resulting in their being labelled “difficult”, “problem” and other pejorative names. Many students have been on the receiving end of put-downs, sarcastic and caustic remarks, clouts and beatings, being “scapegoated”, largely negative personal and academic appraisals, and expulsions. Many teachers seem unaware of their own potentially destructive power in forms of transference, counter-transference and projection in relationships with students.

Recently, a highly-intelligent 17-year-old young man joined one of my groups. He told of his expulsion from school when, after being hit round the head twice by the teacher, he had retaliated and hit him back. He related how he had enthused about enjoying his work on the YTS course. The YTS teacher had turned to the other students and retorted: “I wonder how long he will last at that?” It does not appear easy for some teachers to treat students arriving in a new environment with earlier “labels”, in a fresh manner.

I have found with all so-called “difficult” students, that they will respond, flourish, and become motivated when treated as individuals worthy of a real, respectful relationship. The mutual expectation of respect may become then a reciprocal matter. It has become increasingly apparent to me that when students truthfully express their thoughts and feelings, many teachers feel threatened and students are perceived as “rude”. It is rare, except in a counselling situation, for students to be actively listened to with an understanding of their individual experience.

Teaching or enabling?

When I originally started working with students, intuitively I used a democratic, student-centred approach to learning which recognises and draws upon the experiential world of each student as an individual in any group. Student-centred learning derives from a humanistic approach to education arising from the Rousseauian notion that “people are born free”. Such a theoretical basis contrasts strongly with the mechanistic, behavioural model. Student-centred learning is far removed from the traditional “chalk-and-talk” methods of...
lacturing and imposing ideas upon students. In Freedom to Learn, Carl Rogers (1969) explains:

The philosophy underlying ... a person-centred approach is one that is consistent with the values, the goals, the ideas that have historically been the spirit of our democracy.

Perhaps Bernard Shaw's famous epi
gram, "Those who can, do; those who can't, teach" might summarise the tradi
tional, authoritarian teaching methods where the desire to teach is based upon a wish to impose theories, values and rules upon students. Rogers clarifies his position:

I know that I cannot teach anyone anything. I can only provide an environ­ment in which s/he can learn.

The word "education" derives from the Latin word "educare", meaning to draw out from within. When Rogers extended his theory of person-centred psychotherapy into educational concepts of student-centred learning, he proposed that acceptance, clarification and affirmation of human experience were more conducive to personality growth, develop­ment and learning than the imposition and interpretation of theories and concepts.

My experience in teaching has been that no one is able to learn anything unless s/he feels safe and at ease rather than threatened, is able to enjoy the learning process and feels understood rather than being met with a gener­alised approach. Rogers stressed the need for a teacher to be genuine and empathetic, offering openness and con­gruence, rather than hiding behind a role of an all-powerful, all-knowing author­ity. Students only then may feel the atmosphere is "safe enough" to take the risks involved in expressing thoughts, revealing experiences, experimenting with new ideas and creating and seek­ing new understandings. Best (Bell & Best, 1986) writes:

It is more often the case that it is the teacher's perception of her/his role as a teacher which gets in the way of a clearer understanding of the prob­lems and processes of learning.

Unfortunately, little attention or validity is given in the creation of many courses to drawing upon the wealth of individual talent, skill and experience brought by each student. Many students are unhappy in that, when they have taken the risk of admitting to not understanding concepts, teachers often proceed to ex­plain the concept again in exactly the same manner as before, without at­tempting to enter into the experience and mind-view of the particular student. Recently, a sad example was related to me regarding a completely deaf student in one of my groups. The teacher in this case had explained the problem the second time by shouting at the student in a louder voice.

The students' viewpoint

Many students come from family and academic backgrounds in which nega­tive messages have created an overwhelming lack of self-confidence and self-esteem. Many problems such as over-eating, anorexia, depression, in­tense anxiety, and attention-seeking behaviour appear to be expressions of unease and insecurity from depowering environments.

I asked 50 of my students to write a few statements, addressing the question: "What do you feel you need in any learning environment in order to be able to learn most effectively?"

The following are extracts from some of their views:

• I like the friendliness of the teacher which makes you learn, enjoying the lesson. I grew up in a school where the teachers shouted and hit the kids ... it surprises me here that even if I am not in good mood the lesson can change me. (Greek student)

• If I cannot interact directly with the subject, then I have to interact with people during the lesson, otherwise I lose interest.

• As opposed to being continually "spoon fed" information, being encour­aged to gather, collate and later dis­cuss so as to contribute.

• The enjoyable thing for me is in role play or group discussion involving the warm, friendly, not boring, not strict, not moody teacher. Also when I walk into the classroom, the atmosphere has got to be right.

• Having a teacher that you feel confi­dent with so you can express yourself more freely.

• Teaching myself and not being held down by the restrictions imposed on me in the classroom environment.

• I like to learn from experience and making mistakes. I don’t like being talked at or copying off the board, it is boring and then I get distracted so I don’t learn. I like to take an active part in lessons and not just sit back and listen.

Psychology is of immense value in enhancing the ability of teachers to create facilitating environments for learning. In spite of problems arising from high group numbers, it is vital to perceive the "real" person in each student. However restless, troubled or disruptive a student may be, if approached as a unique human being, s/he will respond to a humanistic attitude. Jung (1933) wrote:

If I want to understand an individual human being, I must lay aside all scientific knowledge of the average man and discard all theories in order to adopt a completely new and un­prejudiced attitude - a free, open mind necessary for understanding.

Teachers need to know or to learn how to create a relaxed, "safe-enough" envi­ronment in which they are approachable and enthusiastic about their students' learning and to reject authoritarian atti­tudes which put down students and create fears and tensions which prevent learning.

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My early ambitions while at Winchester and at Cambridge, studying mathematics and then psychology, had been directed towards the Civil Service, and in October 1938 I entered the Service as an Assistant Principal in the Dominions Office. There I dealt mainly with commercial relations, but on the outbreak of war I was given the plum job of Private Secretary to the Duke of Devonshire, then Under-Secretary of State for the Dominions, a most agreeable master. Soon after I obtained an interview with a University Recruitment Board, which recommended that I should be employed in some technical arm, such as RA signals, in view of my first class degree in maths. In early 1940 however, I was called up and posted to the York and Lancaster Infantry regiment (stationed at Plymouth, but consisting almost entirely of Lon­doners!).

Selection for specialised work in the Army was simple; for example, drivers were chosen from those recruits whose surnames started with A, B or C. In view of my school qualifications, I obtained rapid promotion to Lance-Corporal, the biggest promotional step in the Army which enables one to supervise privates peeling potatoes instead of peeling them oneself. After two months I was interviewed for a possible Commission by a visiting Brigadier. He asked only two questions:

"How long does it take to travel by express train from London to Plymouth?"
"Four and a quarter hours, Sir!"
"Will Italy come into the war?"
"No, Sir!"

I then gave cogent reasons why Italy would be ill-advised to enter the war, expressed in a clear, confident manner. The Brigadier was visibly impressed. Unfortunately, shortly afterwards Italy did enter the war, and I was afraid that the Brigadier would say, "Who was that clot who said Italy would not enter the war? I will cancel his Commission". Luckily he had either forgotten, or my papers could not be found.

In June 1939 I was posted to an officer training unit at Farnborough (then commanded by Lt-Colonel Bingham, who wrote a famous letter to The Times arguing that public school boys made much the best officers). While at Farnborough my first platoon commander was primarily interested in drill, so my initial grading, on a scale from A to D, was only C. The second platoon commander was keenly interested in bridge. Three of us who confessed to sharing this interest were exempted from guard duties to make up a four with him, and

Edgar Anstey was one of a small group of psychologists whose work on selection during the Second World War helped to establish psychology as an applied science. From his home in Cornwall, with its panoramic views of the Atlantic rollers sweeping into Polzeath Bay, he looks back at those challenging years.

"Why did we win the war?" Edgar Anstey asks rhetorically. "Not because we had better soldiers - we didn't - but because we had better scientists. Everyone knows about the Inventors of the jet aircraft, the spitfire, the tank landing craft, and radar, but the public seems to know very little about the psychologists. And psychologists transformed morale in the British army from zero level in 1942."

Edgar Anstey

The Psychologist November 1989
my grading advanced to B. Our feelings for this particular officer (a Regular) were of thinly disguised contempt, which almost reached breaking point when one Sunday, instead of our usual weekend chore of digging anti-tank trenches for the defence of Farnborough, he ordered us to spend the day shoring up the banks of an ornamental lake in the grounds of a titled friend. The third platoon commander came from King’s College, Cambridge (my own college), and my grading rose to A.

While at Farnborough, I was told that at the neighbouring Royal Artillery Signals officer training unit, more than half of the cadets were “returned to unit” (i.e. failed) mainly because of lack of mathematical knowledge or skill. This reminded me of the lack of interest in mathematics among the Dorset Regiment, stationed at East Yorkshire, and in my grading advanced to B.

The gathering of the psychologists

Shortly after my arrival at the Cambridge Army selection unit, we were joined by a fourth psychologist, Jack Davies. In view of his distinguished service with the National Institute of Industrial Psychology and his commanding personality, he quickly achieved a reputation in Army circles: in April he was summoned to an interview at the War Office, leaving in the morning as a 2nd-Lieutenant, he returned to Cambridge in the evening as a Lt-Colonel. The War Office had set up a new Directorate for the Selection of Personnel, with Jack Davies as Inspector and Technical Director.

Norman Hotopf and I joined the Directorate as Captains, while Alec Rodger departed as Senior Psychologist to the Admiralty. The technical division “SP3” was soon joined by four more psychologists: Nigel Balchin (later a famous novelist), Phillip Vernon, and John Parry. Alec Rodger, the latter successor to Jack Davies as Chief Psychologist, Denis McMahan and Edith Mercer in charge of ATS selection, and by two expert statisticians, Philip Vernon and Patrick Slater. All these were the most stimulating colleagues and companions one could possibly imagine. Phillip Vernon was also a distinguished psychologist but, both in the Directorate and in the Admiralty, he was employed mainly on statistical analyses. Armed with a slide rule, he performed factor analyses with extraordinary speed and accuracy, often in a single evening. Patrick Slater, on the other hand, was a pioneer of electrical calculating machines, and his astonishment on being confronted with a Minister of the Crown who had never seen such a machine is dramatically recorded in Nigel Balchin’s novel The Small Back Room.

The Directorate contained two other Divisions: SP1 under Lt-Colonel D.G.O. Ayerst was responsible for selection policy (i.e. persuading the rest of the Army to agree to our proposals); SP2 under Lt-Colonel Sentence-Tapp was responsible for “pay and rations”, in other words logistical support. We were headed by Brigadier K. Mclean, who in turn reported direct to the Adjutant-General of the Army, General Sir Ronald Adam. He was an extraordinarily forward looking man, without whose unsparing support we would never have been able to persuade the Army to accept the wholesale reforms which were recommended.

The history of personnel selection in World War II has been covered in Personnel Selection in the British Forces by Philip Vernon and John Parry, published in 1949. I shall confine myself therefore to personal recollections and comments. In 1941 our initial tasks were twofold: first, job analyses of the main Army, to establish the requirements of each Corps in terms of numbers of men of varying grades of ability, special technical skills and personality characteristics; second, to devise a battery of tests which, when combined with interviews by trained Personnel Selection Officers (PSOs) would enable those requirements to be met by filling jobs with people well suited for them.

The job analyses were led by Balchin and Ungerson, with speed and efficiency. Some significant improvements were possible. For example, the crew for the standard 25-pounder gun had traditionally been of six men, one of whom had the main duty of holding the head of the horse. Given mechanisation and replanning of their duties, this crew could be reduced to five, only four of whom need be operational at any moment, with the fifth man as a relief.

Selecting tests

Choosing a battery of selection tests, some existing ones and others newly devised, was mainly my responsibility, with much assistance from all my colleagues. Our first test was the “Progressive Matrices Test” invented by J.C. Raven, a non-verbal test of intelligence, consisting of groups of patterns and little affected by educational or social factors. This was invaluable to identifying young men whose high innate intelligence had been concealed by poor upbringing and lack of educational opportunities.

I remember, for example, first testing and then interviewing one young man whose only civilian job had been mind­ing a petrol pump. He obtained an outstandingly high score which showed him to be within the top 3 per cent of

my grading advanced to B. Our feelings for this particular officer (a Regular) were of thinly disguised contempt, which almost reached breaking point when one Sunday, instead of our usual weekend chore of digging anti-tank trenches for the defence of Farnborough, he ordered us to spend the day shoring up the banks of an ornamental lake in the grounds of a titled friend. The third platoon commander came from King’s College, Cambridge (my own college), and my grading rose to A.

While at Farnborough, I was told that at the neighbouring Royal Artillery Signals officer training unit, more than half of the cadets were “returned to unit” (i.e. failed) mainly because of lack of mathematical knowledge or skill. This reminded me of the lack of interest in mathematics among the Dorset Regiment, stationed at East Yorkshire, and in my grading advanced to B.

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I remember, for example, first testing and then interviewing one young man whose only civilian job had been mind­ing a petrol pump. He obtained an outstandingly high score which showed him to be within the top 3 per cent of
the population for intelligence. On our advice, he was singled out for special training and promotion. Three years later he reached the rank of Sergeant-Major.

The other four basic tests were a test of Mechanical Aptitude, an Arithmetic test, a Verbal test, and an Instructions test. In addition we devised practical tests of physical agility, mechanical assembly and auditory acuity. There were thorough training courses for testers and for PSOs who interviewed recruits and made recommendations for their employment.

From the outset the emphasis was on strict validation and follow-up. Correlations between test results and end of training course examinations were usually high, but sometimes surprising. For example, the test of clerical aptitude devised by Mary Ormiston achieved high validities for drivers and other jobs, as well as for clerks. It was accordingly remodelled as a general "Instructions" test and included in the basic battery. On another occasion, when experimenting with 100 clerks under training at a Royal Service Corps depot, extraordinarily high correlation coefficients were obtained, some exceeding 0.9. However, the explanation was that 40 of the men, with no previous clerical experience, had been posted there in error. The variance of scores both in the tests and in the course examinations was thus exceptionally high, producing spuriously high validities.

Helping to win the war

For the Directorate, as for the country, 1942 was the decisive year. Until November 1940 (the Italians out of Northeast Africa) the British Army suffered defeat after defeat. As Churchill put it, "before Alamein we scarcely won a victory; after Alamein we scarcely suffered a defeat". Things went so badly in 1940-42 that the Army became prepared to consider any measures for reform, even those recommended by psychologists.

Our first great achievement was the introduction of the "General Service Corps". Under this scheme new recruits were given a common six weeks basic training before being allocated to Army units. Following the job analyses, all Army jobs had been classified into seven groups of Training Recommendations or "TRs". These were TR1 - Driving, TR2 - Mechanical Maintenance, TR3 - Signalling, TR4 - Practical and Constructional, TR5A - Clerical, TR5B - Storemen, TR6 - General Combatant, and TR7 - Labouring. The job analyses also recommended a suitable mix of TRs for each Army unit. For example, an Infantry Battalion should contain something like 10 per cent TR1; 5 per cent TR2; 5 per cent TR3; 10 per cent TR4; 5 per cent TR5; 60 per cent TR6; and 5 per cent TR7.

Early on in their basic training all recruits took the battery of five written and three practical tests and were interviewed by PSOs, who took account of both their previous experience and their abilities measured by the tests and gave each man three TRs in descending order of suitability for posting. Using "Hollerith" machinery, the men were allocated to units systematically in such a way that each unit received approximately the right spread of general intelligence and special experience and abilities to become an efficient fighting unit. This was a spectacular advance on the previous system by which some units received too many high quality men and others, less popular, received too high a proportion of poor quality recruits.

One striking tribute was paid by an elderly officer in the Pioneer Corps, who told me that the introduction of the scheme had "meant the ruin of a fine Corps". Previous entrants to the Corps had contained too many men of quite high ability but unsuited to heavy manual work. Under the new scheme entrants were mainly men of low intelligence but strong physique, eminently suited for their Pioneer Corps duties. On the other hand, the Royal Corps of Signals now received a high proportion of men of above average intelligence, numerate, and with some relevant experience in civilian life.

Officer selection

The second great achievement in 1942 was the introduction of new style War Office Selection Boards. The previous system of officer selection had been mainly by personal interview of men whose previous record (e.g. attendance at public schools), was thought to give promise of "Officer Quality". Commanding officers could also put forward men who had come to their attention, possibly through gallantry in action, or possibly through exceptional smartness on parade.

By the beginning of 1942 this system had palpably broken down. The percentage of cadets "returned to unit" by officer training units because of sheer lack of ability was alarmingly high. Even more serious, thousands of men with officer potential were not being identified and given any chance to receive officer training. The expanding Army was thus faced with a serious shortfall of officers and in despair turned to the Directorate to introduce an entirely new system of officer selection.

Selection Boards have been described in many books and articles. Suffice it to say that their main virtues were:

- Absence of bias in their attitude to candidates
- Reliance on objective selection tests for assessments of ability
- Use of leaderless group tests, some practical outdoor tests and some indoor discussions designed to assess four aspects of leadership - participation, dominance, acceptability and content
- Separate personal interviews by three assessors - a Senior officer, a Junior officer, and a psychiatrist, and thorough discussion of each candidate's strengths and weaknesses before arriving at a Board conclusion. The introduction of new style Selection Boards in the summer of 1942 resulted in such a dramatic drop in the percentage of candidates "returned to Unit" that they received general acceptance throughout the Army.

On the lighter side, it is amusing to recall some of the wilder ideas which were put forward but never put into effect. One of these was the barbed wire trench test - an offshoot of the success-

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Extract from Who's Who 1989

ANSTY, Edgar, MA, PhD; Deputy Chief Scientific Officer, Civil Service Department, and Head of Behavioural Sciences Research Division, 1969-77; Assistant Principal, Dominions Office, 1938; Private Secretary to Duke of Devonshire, 1939; 2nd Lieutenant Dorset Regiment, 1915; Founder-Head of Civil Service Commission Research Unit, 1945; Principal Home Office, 1951; Senior Principal Psychologist, Ministry of Defence, 1958; Chief Psychologist, Civil Service Commission, 1964-69. Publications: Interviewing for the Selection of Staff (with Dr E.O. Mercer), 1956; Staff Reporting and Staff Development, 1961; Committees - How they work and how to work them, 1962; Psychological Tests, 1966; The Techniques of Interviewing, 1968; (with Dr C.A. Fletcher and Dr J.Walker) Staff Appraisal and Development, 1978: An Introduction to Selection Interviewing, 1978; articles in British Journal of Psychology, Occupational Psychology, etc.
ful practical test in which leaderless groups of men had to transport obstacles across a wide ditch, using poles, ropes and other apparatus placed at their disposal. In this variation, a candidate had to leap across a trench filled with barbed wire, tapering in width from about 8 feet at one end to 20 feet at the other. His instruction was simply to jump across the ditch at the widest point he could manage. The theory was that a good candidate would choose the point, say, 15 feet wide where he could just make it successfully. A cowardly candidate would choose a narrow part of the ditch, and a reckless candidate would choose too wide a part, fall backwards and eliminate himself. I don't think this particular test got off the drawing board!

One feature of the officer selection system which has not been publicised is the Officer Rating Index, derived from the basic test battery. With the great stress placed by the Directorate on testing and validating each part of the selection procedure, it was natural that in 1942, for the population passing through the Selection Boards we should correlate each of the individual tests with the final gradings. The results were startling.

All five tests correlated positively with overall gradings. But, using multiple correlation techniques, the best overall prediction of Selection Board verdict could be obtained by giving the Instructions and Verbal tests high positive weights and the Progressive Matrices and Mechanical Aptitude Tests low negative weights. The explanation probably lies in the different requirements for a private soldier and an officer. Intelligence and special skills are always helpful in any job. But, compared with a private, an officer requires a much higher degree of verbal skill in marshalling his thoughts and issuing clear orders, and also more of the particular skills measured in the Instructions test. Except in some specialised posts, an officer does not require any more mechanical aptitude or experience. Be all this as it may, at the initial selection stage one of our tasks was to pick out men with the greatest prospect of passing a Selection Board, and as a measure of relevant intellectual ability, the officer rating index was a useful tool in deciding to recommend a recruit for a Board.

Looking back over the history of the Directorate, it can be claimed that we made a substantial contribution to the efficiency and morale in the Army when each new recruit became assessed impartially on his merits, thus helping him to make this maximum contribution to the winning of the war, whether as an "other rank" or as an officer. I myself felt by January 1944 that I ought perhaps to return to active service in the forthcoming invasion of Europe, and I volunteered to do so. But in his reply dated 24 March, Brigadier Buchanan Smith refused my application on the grounds that the best use of the limited psychological expertise available to the Army was of overriding importance.

As the war was nearing its end Sir Percival Waterfield, the first Civil Service Commissioner, invited me to join the Civil Service Commission as Head of a new Research Unit and as one of the three psychologists serving at Stoke D'Abernon on the new Civil Service Selection Boards. Many happy years followed, culminating, so far as I was concerned, in my article "A 30-year Follow-up of the CSSB Procedure, with Lessons for the Future" published in the Journal of Occupational Psychology in September 1977, but that is another story.

The opinions expressed in this article are entirely those of the author.

Dr Anstey was twice Chair of the Occupational Psychology Section and as such served on the BPS Council.

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Books

Books Received

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Psychic Equilibrium and Psychic Change: Selected papers of Betty Joseph. Tavistock/Routledge. Hardback. Paperback £14.95.

RAVDEN, S.J. & JOHNSON, G.I. (1989)
Evaluating Usability of Human-Computer Interfaces: A practical method. Ellis Horwood. Hardback £21.

CURTIS, R.C. (Ed) (1989)
Self Defeating Behaviours: Experimental research, clinical impressions, and practical implications. Plenum Press. Hardback £45.

WADESON, H., DURKIN, J. & PERACH, D. (Eds) (1989)
Advances in Art Therapy. Wiley. Hardback £33.40.

CICCHETTI, D. & CARLSON, V. (Eds) (1989)
Critique in a Child Maltreatment: Theory and research on the causes and consequences of child abuse. Cambridge University Press. Hardback £40. Paperback £15.

BROWN, G.W. & HARRIS, T.O. (Eds) (1989)
Life Events and Illness. Unwin Hyman. Hardback £35.

DUDAI, Y. (1989)
The Neurobiology of Memory: Concepts, findings, trends. Oxford University Press. Hardback £40. Paperback £15.

WHIMONT, E.C. & BRINTON PERERA, S. (1989)
Dreams, a Portal to the Source. Routledge. Hardback £19.95.

HAMBURG, D. & SARTORIUS, N. (Eds) (1989)
Health and Behaviour: Selected perspectives. World Health Organisation/Cambridge University Press. Hardback £30.

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Animal Consciousness. Prometheus. Hardback £39.95.

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The State of Social Psychology: Issues, themes and controversies. Sage. Hardback £25. Paperback £11.25.

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Lay Epistemics and Human Knowledge: Cognitive and motivational bases. Plenum Press. Hardback £42.

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Hartland’s Medical and Dental Hypnosis 3rd Edn. Balliere Tindall. Paperback £19.95.

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The Inner World: A psycho-analytic study of childhood and society in India. 2nd Edn. Oxford University Press. Paperback £3.95.

SARNOFF, I. & SARNOFF, S. (1989)
Lonely Hearted Marriage in a Self-centred World. Hemisphere Publishing Corporation. Hardback £28. Paperback £14.

BIRCHWOOD, M.J., HALLETT, S.E. & PRESTON, M.C. (1990)
Schizophrenia: An integrated approach to research and treatment. New York University Press. Hardback £52.50.

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HARGREAVES, D.J. (Ed) (1989)
Children and the Arts. Open University Press. Hardback £27.50. Paperback £9.95.
A Critique of the Evaluation of the "Child Development Programme" (Barker and Anderson 1988)

Jim Stevenson

Too rarely do psychologists get the opportunity to test the knowledge gained from psychological research in large-scale social programmes. This makes the work of Barker and his colleagues of considerable interest. The Child Development Programme represents a potential major influence on the development of health visiting practice in the UK. Many Health Authorities have considered the programme and a number of health districts have adopted various models of service delivery based upon the programme. The Early Childhood Development Unit at the University of Bristol has received funds from the Bernard van Leer Foundation to develop, disseminate and evaluate this programme. For the first time the project has made available its account of the evaluation of the programme in terms of the impact on processes within the family and the outcome as far as children are concerned. The programme represents an important re-orientation in the role of health visiting. In their own words:

It enables health visitors and other community workers to offer structured support and encouragement to the parents of young children, especially first-time parents, or older parents who face problems in the rearing of their children. Visitors are expected to divest themselves of any vestige of "authority" and to approach the parents as real equals. The programme is very comprehensive, focussing on nutrition, language, social and cognitive development, as well as health and maternal self-esteem.

The Child Development Programme consists of semi-structured monthly home visits by the health visitor. At each visit the parent is asked about changes in the child's abilities since the last visit. The health visitor is supplied with materials, often humorous cartoons, with which to prompt the parent on various aspects of child-rearing that may be of concern to them. The child's diet is reviewed on a systematic basis, as is a check on more formal aspects of health care (e.g. immunisation) and developmental checks. The central part of the visit is taken up with identifying possible developmental tasks for the parent to tackle. This includes a check on progress with the task agreed at the previous visit. Such tasks might include stimulating some aspect of language skills, coping with a behavioural problem or altering part of the child's diet.

In publishing Stevenson's critique of the "Child Development Programme" and the reply by Barker and Anderson who developed it, we are making a new departure in the Academic Section of The Psychologist. It is unusual for us to publish methodological critiques of evaluation studies. However, this is an important area in psychological research as more intervention programmes are developed. Rigour in the evaluation of such intervention is clearly vital. The critique presented and its rebuttal illustrate some of the central considerations for any longitudinal evaluation programme. We hope in the future to provide in The Psychologist a venue for further debates on the adequacy of the evaluation of intervention programmes.

Honorary Editors

It is crucial that the evaluation evidence be considered carefully, precisely because the programme does represent a radical departure from established health visiting practice. The present critique is based upon Barker, W. and Anderson, R. (1988) The Child Development Programme: an evaluation of process and outcomes. Early Childhood Development Unit, University of Bristol.

The general design of the evaluation was based upon the random allocation of each of a pair of health visitors to intervention and control conditions and a good case is made for this procedure. Children for the evaluation study were randomly selected from the case loads of the control and intervention health visitors. For reasons that are unclear from the report, the number of intervention children in the evaluation in some regions was roughly twice that of the control sample.

Interviewers were recruited to conduct three assessments of the children and their families. The published results are based on year one and year three data only i.e. when the children were on average 10.4 months and 42.9 months of age respectively. There was no attempt to ensure that different interviewers for any one family were used at each assessment. The interviewers were blind as to whether the families were intervention or control at the first year assessment but not thereafter. Attempts were made to avoid the interviewers being familiar with the content of the programme.

There is a section of the report that gives a consumers' view of the value of the programme from the parents, health visitor and nurse managers. These are well presented and highlight advantages and disadvantages of the programme. Unfortunately no systematic or quantitative data is presented in support of this account of consumers' views.

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The Psychologist: Bulletin of the British Psychological Society (1989), 11, 480-482.
The main substantive findings, as stated by the authors, are as follows:

1. Thirty three per cent of 1051 children were lost to the study - an equal loss in the intervention and control samples.

2. Significant improvements in the parental home environment measures favoured the intervention group.

3. Intervention produced a highly significant prediction of the child's global development score in the third year for three out of four Areas.

4. Parents, health visitors and managers were widely supportive of the programme.

5. Health visitor personality characteristics were a material factor in the success of the programme.

6. Nutritional and growth changes favouring the intervention cases could be detected in some areas.

7. The programme could produce a remarkable reduction in the number of cases on child abuse registers and a very low level of child abuse injuries.

8. The programme is influencing an increasing number of health visitors and health authorities.

The aim of this critique is to examine the validity of these conclusions based on the evidence presented in the report. It has been an unfortunate feature of the work of the Child Development Programme that few accounts of its rationale, and the evaluation evidence have appeared in peer reviewed journals. Accordingly there has been little commentary on the programme from the wider research community. It is timely to consider the evidence on the programme's efficacy given the relative difficulty of demonstrating health visitor effectiveness in other programmes (Stevenson, 1988) and the enthusiasm for the programme amongst those developing services in certain areas.

A major problem with the evaluation concerns the testing of significant differences in changes between the intervention and control groups. This is shown, for example, in the analysis of changes in the home variables such as the "home environment", which is based on "observations and questions on the creative use of toys and their variety, as well as the child's freedom to play with kitchen utensils and other domestic objects". These results are given as the t-test statistics for the comparison of the control and intervention group means for the home environment measures separately at Year 1 and Year 3. The comparison of the size of the change in the control and intervention groups is then indexed by the aggregated t-test statistics at the two time points. There are a number of difficulties with this approach.

The size of "t" is not a direct measure of the magnitude of the differences between the mean scores of the groups at any one age. It is also influenced by the within sample variances and the number of subjects. In addition it is not appropriate to add two values of "t" to gain an index of an aggregated effect; it is not an interval scale measure.

A recurrent problem in the report is the failure to report simple group means on the environmental and outcome variables. Instead either t values are quoted or percentage variances explained are given from the regression analysis. Nowhere is there a straightforward statement of the mean scores for groups before and after either intervention or conventional health visiting. The statistical analysis of change data is notoriously difficult and many alternative solutions have been proposed (Harris, 1963; Wohlwill, 1973; Goldstein, 1973; Plevis, 1981) but the method chosen to analyse control and intervention differences in home measures makes little sense.

A good case is made for the need to use multivariate analysis to determine the impact of intervention on child development outcomes; the choice of multiple regression is appropriate. The authors have developed their own form of regression based on a v-ridge procedure and provide a good case for its adoption.

The child measures were amalgamated into an index based upon the weighted sum of the socialisation, language development, cognitive development and educational awareness of the child. Rather than obtaining these weights by principal component analysis different a priori weights are ascribed at the Year 1 and 3 time points.

A major concern in the analysis is the way the intervention variable was constructed. Rather than simply treating the intervention variable as a binary predictor in the regression, it is argued that variation such as the number of health visitor visits and the extent of the tasks given to the parents should be included in the intervention measure. The result of amalgamating the intervention variables in this way is a serious distortion that undermines the interpretation of the effects of the programme per se.

The control and intervention groups are both in the analysis. The control cases presumably all have a value of zero on the intervention variable. The intervention cases then receive scores distributed across a wider range that reflects the extent to which they were in contact with the programme. The use of this variable to then predict the child's global development, for example, could mean that the regression is only picking up the differential effects of within programme variation. It would have been more appropriate to use an intervention index that was a simple binary index to compare intervention and control. At a second stage the variation in programme delivery could have been investigated within the intervention sample alone. The net effect of this approach to the treatment of the intervention is that the power of the original experimental design is lost i.e. the intervention measure is no longer based upon clear random allocation to intervention and control treatments.

A further difficulty this creates is the danger of circularity. It may be that those parents who saw the programme as being helpful to their child were the ones that most readily agreed to more frequent visiting or at least were less likely to break appointments or to deny the health visitor access to the family. This would then lead to an inevitable association between an intervention variable that included frequency of visiting and the child's developmental index.

Barker and Anderson (personal communication) have recalculated the regression analyses using this a binary intervention variable. For the eight main analyses, in seven cases the intervention variable remained significantly related to outcome in the expected direction of favouring the intervention group. However, the percentage of the variance attributable to the intervention variable was sharply reduced.

The results of the published analyses using the continuous intervention measure produced results with 1.11 to 3.96 per cent of the variance attributable to the intervention. This means that after converting the intervention index to a binary form to avoid the confounding effects described above the programme is seen to have very little effect on the child outcome.

A second major confounding factor in these regression analyses is the incorporation of health visitor personality as part of the intervention measure. It is not clear whether these were measured on the control cases. When the intervention variable is then regressed onto the outcome measures the resultant significant regression could simply result from non-specific effects of health visitor personality. It is not central to the evaluation to demonstrate that some health visitors are more effective than others in their work with the families.
on their case loads. What is of greater relevance to the evaluation is whether there is differential effectiveness in the health visitors' use of the Child Development Programme.

At several points during the report, reference is made to Abelson (1985) who has argued that variables with small effects when they operate over a number of years will have a cumulatively greater effect. There is no evidence that this intervention can have such an effect. The impact on the families and the child may wash out in time or may be limited to the duration of the programme. The onus is on the DCP to demonstrate cumulative effects rather than assuming they are present. Testing for cumulative effects should be possible by incorporating the Year 2 data which was excluded in the present analysis.

The major part of the evaluation concerns the initial format of the CDP. The final section presents some preliminary results from first parent visitors which is the current field tested version of the CDP. Some data are also presented on the levels of child abuse amongst CDP children. A strong claim is made that the programme has been effective in substantially reducing the rates of child abuse. Unfortunately, these claims are based upon spurious comparisons with national NSPCC statistics that were gathered in a somewhat different manner than that in the intervention cases. A second comparison is made with child abuse register data from other parts of the health authority. It is well-known that the policies over the inclusion of children onto the child abuse registers varies from area to area - so strict comparability is precluded (see Creighton, 1989). There is no clear demarcation of the age of the children in the programme and those taken from the Authority registers. These results are consistent with the programme having an impact on child abuse rates but no stronger conclusions should be drawn.

The Child Development Programme is a major feature in the development of health visitor practice in the UK. It is an approach with a strong theoretical justification and one that should stand a good chance of enhancing the impact of health visitors on their families. It therefore represents an important test ground for the application of psychological knowledge to the care and welfare of young children. Unfortunately the case for the programme is not aided by the reporting of evaluation data in this muddled and misleading manner. It is to be hoped that the authors will reconsider some aspects of the analysis and then present them for scrutiny in a variety of peer reviewed journals.

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This critique was produced in conjunction with a Study Group of the Association for Child Psychology and Psychiatry on “Health visitor based services for preschool children with behaviour problems”. I am grateful to the ACPP for their financial support and to my colleagues on the Study Group for their comments (Peter Appleton, Jo Douglas, Trian Fundudis and Kevin Hewitt).

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Revised version received May 1989.
Response to Critique of the CDP’s Evaluation Document 9

Walter Barker and Richard Anderson

This response will of necessity concentrate on the key issues, rather than attempt to comment on every detail in the Critique. The Study Group has made some interesting points which merit further examination when new analyses are undertaken on the 4 million items gathered in the Child Development Programme’s evaluation of the first, experimental phase. In the current field programme there is a great deal of new information now being gathered by the participating Health Authorities and hopefully more results from the ongoing work will start to appear within the next year.

The nature of Programme visiting. The Critique’s description of the nature of home visiting in the Programme does not identify the fundamental difference between this visiting and customary health visiting. In customary visiting the professional offers advice and guidance; she points the way forward to the parents, and concentrates almost entirely on the well-being of the baby or child. In Programme visiting the parent is empowered and helped to develop the skills needed to find her (or his) own way forward in rearing the child, supported with information and encouragement but not advice from the visitor; the mother’s diet, well-being and self-esteem are treated as critical aspects of the dyadic or triadic process.

Different sizes of intervention and control samples. There is no statistical or other reason, other than that of having a “tidy” design, why intervention and control samples should be equal. The larger intervention samples gave us more (statistical) scope for exploring detailed aspects of the intervention.

Changing interviewers between assessments? The Critique says that no attempt was made to ensure that different interviewers for any one family were used at each assessment. In a large field research study with over 1000 families spread across six health authorities in three countries (England, Wales and the Republic of Ireland), it would have been unthinkable to ask the regionally selected interviewers (most had children of their own) to move home for several months, to learn the new geography of areas covering up to 30 miles across, and come to understand a new sub-culture sufficiently to cope with dialect and other differences when interviewing. The perfection of switching interviewers belongs to the tightly controlled homogenous laboratory environment.

No systematic or quantitative data on consumers’ views. We have serious doubts about the statistical reliability of views from consumers who have given time and effort to participating in a research programme. Cognitive dissonance would prompt a high positive feedback, whether or not the programme had been effective. Consumers’ views are the prime area for descriptive reports which often give profound insights into the process underlying a programme. To attempt to put figures on such views would trivialise the insights.

Aggregated t-test statistics comparing intervention and control samples in year 1 and year 3. Considerable concern is expressed in the Critique about the fact that we compare t-test differences across intervention and control samples, for each of ten home environment variables within each of the four regions. These t-test differences (intervention vs. control) are compared across years 1 and 3. Thus a reversal of a significant difference favouring controls in year 1, to a difference or a significant difference favouring intervention in year 3, was described by us as highly meaningful.

Colin Chalmers, Senior Lecturer in Statistics at Birkbeck College, University of London, who has been a statistical consultant to this Programme from the outset, has commented on the above point:

The main criticism seems to revolve around your method of carrying out what is essentially a two-way analysis of variance as two t-tests. I really see nothing inherently wrong in this. What you are looking at is the interaction test slightly modified for an unequal variance structure.

You have, after all, a two by two design (control and intervention) X (year one and year three). You have ignored the matching on the years and computed the linear contrast of (control v intervention) (year 1) versus (control v intervention) (year 3). Personally I would have carried out the anova and tried to use the matched data to improve the precision, but if this result points towards significance it is likely that using the matched information would increase the significance level. I do however feel that quoting the means and standard deviations would have helped to show the magnitude of the effects.

I do not accept the invalidity of adding t-scores in this particular instance. It is not something I would have done but when the sample sizes are the same this is exactly equivalent to adding standardised mean differences together or adding the standardised means before intervention and subtracting those after. A t-statistic is just like a standardised score and no one quibbles about adding together standardised scores. The problem I suspect is that they want this to be done conditional on age. This is something we have discussed ad nauseam and, as you remark, trying to take age into account in the scoring of the variables has been very troublesome. Again I would have carried out an anova in the hope of either removing age or showing that it was irrelevant.
We can add, in view of the complexity of the age factor and its varying effects across different predictors and outcomes, it seemed simplest to have it entered as a year 3 predictor in all our main regression models.

Evidence from mean scores? We recognise that many people do like to see means and standard deviations, enabling them to evaluate changes within the intervention and control samples. On their own, unadjusted for all the other covariates, the means and sds would be meaningless. Had we relied on analysis of variance and covariance it would have been easy to present adjusted means and then debate the importance or otherwise of fractional differences in standard deviations. We chose instead to use regression analysis. I have always favoured the presentation of variance explained and an examination of the size of predictions from each of a number of competing variables. It is more direct and may be a simpler exposition of a model than is possible with ANOVA.

A priori weights for the weighted index of child competence? Our use of a priori weights to assemble global child competence measures in years 1 and 3 is questioned, with principal components suggested as an alternative. Past experience in other research showed me that canonical correlation type analyses, or iterative path analysis procedures such as those advocated by Wold (Noonan & Wold, 1977), in which weights are refined on each round of regression, often serve to highlight particular variables at the expense of other variables entered into a composite or cluster group. We had strong a priori grounds for arguing that in years 1 and 3 the composite outcome measures should reflect fixed percentages of the socialisation, language, cognitive and early educational abilities rather than attempting to maximise any predictive relationships by using principal components or statistical iterative methods. For year 1 we gave 40 per cent weight to language and 30 per cent to cognitive. For the measurement of older children (two and a half years later) we increased the socialisation and educational ability proportions, for obvious reasons. We did not attempt to tailor these proportions to any predictive data set.

The construction of the intervention variable. The Critique is most unhappy with our construction of a composite intervention variable, weighted to take account of the number of visits, the nature of parental tasks undertaken, and personality characteristics of the intervention health visitor. It describes this as a "serious distortion" which undermines the interpretation of the effects of the programme per se. This is a point of major and perhaps unbridgeable difference between ourselves and the authors of the Critique.

In an earlier study I have argued at length that attempts to describe a programme statistically by a 1/0 (binary) variable is to assume the narrowest of laboratory models. Intervention in the Child Development Programme was not a rigid "treatment". Variations in the number of visits were usually related to the characteristics of the visitors (level of commitment, other responsibilities, etc.) rather than to those of the parents. Some "difficult" parents were simply abandoned by a few of the visitors, although they appeared to be quite willing to be interviewed each year.

Colin Chalmers, cited earlier, commented that he favoured the dose analogy in the treatment of intervention itself. "We are dealing with an interactive situation and the response in which one is interested is not the effect of intervention, but the effect of intervention in a specific case". You are really in the same ethical dilemma as doctors who prescribe doses of a drug which they then increase or decrease according to the patient's response. Does one count treatment then as binary? I suspect not. Intervention is not really an imposition but a co-operation."

In response to the comments in the Critique we re-ran the eight main regressions using intervention/control as a 1/0 variable. Although the size of the intervention contribution was sharply reduced, as could be expected, the variable continued to predict significantly in seven of the eight regressions, in five of these highly significantly. The variance predicted ranged from 0.1 per cent (in the one non-significant regression) up to 1.85 per cent. The deeper reality is that this 1/0 intervention variable contributes between 2 and 12 per cent of all variance explained, across the eight regressions. That is in itself a quite acceptable proportion given the powerful competing predictions of age (at final testing) and of 13 other important home variables. When intervention is scored more sensitively, based on numbers of visits and other factors, the proportion of all variance explained rises to between 7 and 27 per cent.

If the experimental programme had been planned to rely on a 1/0 intervention analysis, it would have been necessary to ensure approximate uniformity of programme input, comparable controls on control visitor input, and other controls which would have changed a very large field research study into a laboratory one. For example, we found some control visitors bringing books into the homes of parents as part of an intentionally higher frequency of visiting. How do we take statistical account of that, or of those (relatively few) control families who boasted that the nature of the home environment questions asked by the interviewers during the previous year's interviews had completely changed their perceptions of their role (and their behaviours) as parents? How could we have accounted for such factors other than by accepting the field reality and assessing the intervention input as sensitively as possible?

The health visitor variable. It is not unreasonable to compare the outcomes of this programme with the outcomes of a study by Stevenson, described briefly in the recent final report of the same ACPP Study Group on "Health Visitor based services for pre-school children with behavioural problems". Stevenson (referenced in the Critique) describes the failure of one such programme. Whatever the rationale for the negative outcomes, it is significant that one of the Group's conclusions is that home based interventions may not be the best way for health visitors to supply this type of behaviour management advice. "It may be that (by) using clinic visits or possibly even more fruitful the use of work with groups of mothers, the health visitor may be better able to adopt a more directive approach with families."

This advocacy of "a more directive approach" is a most important statement of philosophy. There is a chasm between that approach and our own alternative approach of capacitation and empowerment of parents, within the sheltered environment of the home where the parent is in charge and the visitor merely a support person, with no "directive" or even advisory role. It is within the context of the home that the health visitor's characteristics are all important. In the current ongoing phase of the programme, visitors are selected and trained to a far higher level of sensitivity and non-directiveness than was ever possible in the experimental phase.

The Abelson study and cumulative effects. The Critique's slighting comments on the small percentages of variance explained need to be set against the findings of Abelson (referenced in the Critique) that a strong relationship such as that between individuals' previous batting records and their subsequent performance had a predictive power of only 0.3 per cent, despite the very high significance of the prediction.
Chalmers shows how it is possible for both omega squared and $R^2$ to be small, while $F$ is substantial, indicating a real effect. In a general ANOVA:

$$F = 1 + \left( J w^2 / (1 - w^2) \right)$$

and

$$R^2 = \left( \{i-1\} (1 + \left( J w^2 / (1 - w^2) \right) \) / \left( \{i-1\} + \left( J (1 - w^2) / (1 - w^2) \right) \right)$$

where $I = \text{number of levels},$ and $J = \text{number of replicates per level}$

With $I = 100, J = 1000, w^2 = .003,$ one gets

$$F = 4 \text{ and } R^2 = .004$$

The other criticism voiced in this regard is that we have not shown that small effects would have a cumulatively greater effect over the years. Headstart studies showed that, despite the Westinghouse/Ohio attempt to demolish the original positive findings (Cicirelli et al., 1969), it can take up to 10 years to establish long-term effects (Lazar et al., 1977). Our contention is that any programme which helps parents improve their parenting skills is likely to have cumulative effects because the prime environmental influence has been altered, one assumes for good. By comparison, programmes focussed on very young children tend to have only short-term effects because the children remain in an unchanged parenting environment. We would welcome funding support to establish the strength or otherwise of the long-term effects of our parent support programme.

The meaningfulness of the child abuse statistics. Figures cited in our Evaluation Document 9 showed a total of nine injuries among 7,300 first children from 0 to 3 in the current phase of the programme, with an approximate average of two years for each child sampled. This gives a total of 0.62 injuries per 1000 programme children per year, compared with the NSPCC total of 1.42 injuries per 1000 0- to 4-year-old children of all parties for a national sample from all social classes. Clearly these figures are not strictly comparable. But given the fact that the programme children are selected from the most disadvantaged parts of any Health Authority where we work, given the estimate that over 20 per cent of all injuries occur to first born children, and given comparable figures from disadvantaged health authorities with up to 4.5 injuries per 1000 children per year, we are confident in claiming remarkable success on this front. It is hardly a spurious comparison, as the Critique claims.

Our abuse register figures are criticised on the grounds that strict comparability is precluded by differing policies over the inclusion of children on the register. Our figures showed that in three health authorities only seven out of 2100 programme children were on the abuse register, compared with 234 children on the register out of a total of 11,900 for the whole of those same three authorities (including our disadvantaged Programme areas). If those figures do not suggest a very strong programme effect, it is hard to think what would.

Other comments. We are aware of the fact that shortage of funds and time has prevented us from writing more than a few reports for the scientific literature; we are still largely dependent on funding from an international charitable foundation, despite the fact that we are possibly achieving more than any other UK programme in changing the lives and health of children and parents living in social stress areas (and in helping to focus strongly on the much neglected area of women’s diets, health and self-esteem). While we struggle to remain in existence and to continue expanding, there is little time for more and wider research studies, much as we would enjoy writing them. The Critique’s description of our reporting of evaluation data in “this muddled and misleading manner” is the kind of verbal slanging to which we do not intend to reply. We would welcome other views on our evaluation report, and look forward to other, more constructive comments.

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Revised version received 1 June 1989
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The Psychologist
Letters

Petition by British Scientists Abroad

British Scientists Abroad have launched a petition to draw attention to the effect of government science funding policies in driving academics overseas. The petition is to be signed by British scientists working overseas, and is designed to illustrate the "brain drain" in terms of names, UK degrees and current positions held. Thus we hope to provide a direct and comprehensive demonstration of the loss of talent and national educational investment resulting from current science policy.

The petition reads:

Dear Mrs Thatcher

As British scientists working abroad, we are very concerned that British scientific research is being starved of necessary funding, with the consequent emigration of many scientists like ourselves. The dearth of funding for state-of-the-art equipment and supplies, coupled with the lack of jobs and career prospects for young academics, are major obstacles in our considering returning to the UK. We urge the Government to reform its science policy along the lines suggested by Save British Science, particularly as follows:

- Government support for science, as a fraction of national wealth invested in civil research and development, should be increased to be in line with other major European nations.
- Tax incentives for industrial support of fundamental research in institutions with open, academic type research and publication practices, should be improved.
- The Government should recognise its responsibility to safeguard a broad academic base of independent scientific research on which future technological progress can be based.

We ask all British scientists overseas who are concerned about the state of British science funding to write to us (SAE appreciated) or call us at the number below to request a copy of the petition for signature and further distribution. Alternatively, signed letters carrying the text of the petition as above and including the signatory's name, highest UK degree and institution where obtained, and current position and institution, would also be welcome. Our address is: British Scientists Abroad (BSA), c/o Dr Marie Rose Schraendijk, Lab of Infectious Diseases, DNAX Research Institute, 901 California Ave, Palo Alto CA 94304-1104, USA. BSA Tel. #(415) 856 4214.

Leslie Murray
Anne O'Garra
Marie Rose Schraendijk
DNAX Research Institute
Simon Hughes
Dept of Pharmacology
Stanford University

Report summary inaccurate

The summary of "The Future of the Psychological Sciences" Report offered by the Committee of the Psychotherapy Section (The Psychologist, August 1989) was so inconsistent with my memory of the document that I had helped to author that it sent me back to read it once again. The Psychotherapy Section interpreted the Report as advocating a marketing exercise to sell psychology on behalf of and for the benefits of the socio-political status quo. If it had done so I would certainly have shared their deep concern. However, that had never been my impression of the Report, and my re-reading of it confirmed my memory. To me, the Report is a very wide-ranging challenge to most areas of the psychological sciences. It is true the Report consists of 88 pages, in Section 18, to the marketing of psychology, but nowhere can I find the implied message that we should be marketing an image of psychology rather than the skills and knowledge of psychologists and psychologists themselves. The Report does argue that "Psychology is unlikely to succeed if we fail to demonstrate to the public mind that psychology has benefits of a social, economic, cultural and educational value" and that "psychologists have been naive in both local and national terms if they have not recognised that the well-being of their discipline depends on it making its mark in a competitive political world, in which there is social conflict, sectional interest, and a variety of competing moralities". The tenor of the Report is that it is not sufficient for the psychological sciences to accumulate psychological knowledge without attempting to make that knowledge known to the non-psychological world. To the Working Party, this seemed to be an essential aspect of the proper development of the discipline.

Rather than attempting to convey the content of the Report in a single letter (a task that was impossible within a full article: The Psychologist, June 1989) I urge all interested members of the Society to write to the Leicester office and obtain a free copy of the Report so that they can draw their own conclusions upon its approach and content.

Peter Morris
Chair, Scientific Affairs Board
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Credit to the Careers Service

Mea culpa! I must apologise for my expressed lack of faith in careers officers - it is clear that, in my article "The Skills Acquired in Psychology Degrees" (The Psychologist, June 1989) I had failed to give them due credit.

While fully accepting that my sweeping generalisation misjudges the careers service, I must point out that the criticism did not come from nowhere. Even in the past academic year, I have known of a final year joint honours student who was explicitly told by a polytechnic careers officer that if she wanted to get a decent job, she had "done the wrong degree", and the best she could do would be to get some voluntary experience somewhere to make up for it. A similar story was told to me by three graduates of my acquaintance who had done their degree in another part of the country; and that, coupled with my knowledge of the experiences of many other psychology graduates in terms of lack of career awareness and lack of confidence in their skills, was the basis of my remarks.

But I really did not write the article to get at careers advisers - honest! And I was really pleased to find out that my
limited sample was atypical. It was written to inform academic staff, as I have encountered some (note the cautious phrasing here) who are rather pessimistic about, or unaware of, the possibilities open to psychology graduates. I felt this to be important since, as M.G. Miller points out, many students do not avail themselves of the Careers Service available to them, and simply pick up their ideas from those possibilities expressed informally by teaching staff.

I am grateful to Frank Slater, M.G. Miller and R.V. Wilson for putting me straight via the Careers Service, and much heartened by their comments.

**Nick Hayes**
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**In defence of “black humour”**

I was much interested to read David Joyce’s article about the “black humour” prevalent amongst police officers dealing with death (The Psychologist, September 1989), and would like to add one or two small insights of my own.

I am a graduate psychologist and have been working for the London Ambulance Service for some years now, serving as both ambulance driver and control officer.

The tendency to relate as amusing, often for many years afterwards, the more horrifying incidents one has witnessed, appears to be almost universal amongst those whose business is other people’s misery. I have done it myself and I work within an environment where this reaction is the norm. Although there are clearly slightly different moves amongst the various emergency services, I feel I must contribute an interpretation slightly at variance with the need to save face and “not cock it up” by showing emotion as described by Mr Joyce.

As a raw ambulance trainee (and incidentally a woman), I was told that I was about to enter a world where I would see, many times a day, situations which would be variously unpleasant, tragic, horrifying and any other adjective which came to mind, and that whilst witnessing these things I would often be the first, if not the only professional on scene. At the sight of the uniform everyone would turn to me to take control and that getting upset would just have to wait. Over the years I have learned this to be true. At the scene of most emergency situations there are more than enough upset, frightened and emotional people to go round. The main service that we can render, especially where a death is involved and medical aid is inappropriate, is to remain detached and thus cope efficiently on everyone else’s behalf; the victim’s relatives and friends have become our “patients”.

The control one learns to exercise in order to perform this professional function is not easy to switch on and off. It is true, however, that horrifying incidents do leave their mark and must be worked through somehow. As David Joyce said, “the very telling of a story helps the teller to come to terms with it” and the conversion from horror to humour renders the story tellable.

This humorous approach appears to me to be almost the only way in which the inevitable effects of working with tragedy for eight or more hours a day on the average compassionate human being can be expressed, given that the more “appropriate” response of immediate emotion renders the individual incapable of doing the job. I will risk suggesting that this observation is easier for a woman to make since there appears to me to be less of an automatic sheltering “behind bravado and face-saving” in the average female response to life.

We do cry, all of us at some time or other, from the rawest recruit to the most hard, bitter old hand, but we love doing our job and crying does not seem to help us do it better, whereas laughing does.

**Carolyn Steele**
Central Ambulance Control
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Your recent article on the above in The Psychologist, September 1989, reminded me of an experience my husband (a police officer with the Metropolitan police) had during one of his first shifts as a new recruit. He was sent to investigate his first death, reported to have occurred in a car park late at night on the outskirts of his inner city patch.

As he bent over the inert shape with a torch to illuminate the possibly grisly reality, the cadaver leapt to its feet and raced off, laughing fit to kill itself.

On his return to report in, the prospective constable faced more unbridled mirth from colleagues and superiors; the cause now obvious. This was an “initiation rite” and the “bravado and face-saving” in the blameless and thus cope with immediate distress takes its own toll.

While you cannot have policemen sitting by the roadside weeping at traffic accidents, or changing their truncheons at the scene of a homicide, might not police forces in this new communicative age be willing to accept the need for training for a programme of support in this area, for its young and/or new recruits. Perhaps, indeed, at all levels, if the shell of higher status officers has not grown too impermeable?

**Janet E. Kingswood**
Buckinghamshire County Council Education Department, County Psychology Service
Limfitt & South Bucks Area Council Offices
King George V Road
Amersham
Bucks HP6 5BY

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**Role of educational psychologists**

I read Marion Hobbs’ letter in the September issue of The Psychologist with some surprise, it may well be that the educational psychologists with whom she is acquainted do in fact spend their time helping children rather than teachers. However, this has not been my experience. Having been an educational psychologist for the last 17 years, I find myself and my colleagues spending an increasing proportion of our time doing exactly those things she is advocating. Individual counselling and support of teachers under stress has become a regular part of our work as have courses on time management, stress and coping strategies. With the advent of the 1989 Education Reform Act and the changing role of the Advisor, from supporter to inspector, it is likely that educational psychologists will be virtually the only professional group with the skills and opportunity to develop this area of work. So what we need are more educational psychologists rather than a whole new set of professionals.

**S. Lorenz**
Senior Educational Psychologist
c/o Dorset Primary School
Thorn Walk
Leeds LS8 3LW

Few could fail to sympathise with Marion Hobbs desirous to help teachers cope with their low morale, the over-demanding curriculum changes and the high levels of stress (The Psychologist, September 1989). Yet I find myself deeply disturbed by her suggested “ultimate” remedy. We do not have to scratch far beneath the surface of the literature on burnout, learned helplessness and systems theory to see the flaw in her argument. The short-term solution is to prop up an inadequate system, the longer term solution is to restructure it. When so
many individuals express such dissatisfaction with a system that they desperately seek escape from it, it is surely time for us to call it into question.

Where one stands on her proposal will be determined by how one construes the educational enterprise and its relationship to schooling. If we accept that education is to be defined simply and solely in terms of information transmission then I suppose we might just be led to accept her proposal. However, we accept that education is a curiosity driven, decision making and, ultimately, a progressive problem shifting system, in which teachers and learners contribute to the evolution of the curriculum, then her proposal has to be totally rejected.

Peter V. Mathews
North Cheshire College
Padgate Campus
Fearnhead Lane
Warrington
Cheshire

In defence of social work

Your correspondent Evelyn Ward (The Psychologist, September 1989) is almost but not quite right in declaring that there are too many basically trained social workers trying to do work which really ought to be done by social psychologists

Ms Ward rightly describes social workers as having been "given" the field (not the entire field I would argue, but at any rate a sizeable part of it) in "child abuse, domestic violence, recalcitrant delinquency, drug abuse, urban problems." A more relevant question, however, would be by whom was the field "given", and whose responsibility is it anyway?

There are a number of answers not necessarily related to the theory and practice of social psychology although I assume Ms Ward is aware that Social Work qualifying courses do include that discipline in their curricula. As to the first question, however, the problems which social workers face in their working lives are indeed "given" by a society which prefers to hide off these problems from the lives of the majority of the population who manage without outside help. However, in the guise of virtue, there are numerous answers: for child abuse and neglect, the parents; for domestic violence, the police; for delinquency, education; and for drug abuse, probably all of the latter; for urban problems, planners, politicians. Need I go on?

Social workers do not indeed believe that basic education is adequate to fulfil all the above tasks: that is why so many of them undertake post-qualifying training, in many of the above, including psychotherapy, behaviour therapy, family work, management, and research, often at their own expense; and why the Council for Education and Training in Social Work asked for funding for a three-year basic qualifying course, a request denied by Government last year. There may be many psychology graduates who fail to get places on qualifying courses because of the rigorous selection procedures and competition for places; there are many who do and whom I have taught and tutored.

As to Ms Ward's final point, about unmet need, this again is a constant preoccupation of social workers and their trainers and one into which much creative thought and innovation goes. Perhaps instead of looking at what is wrong with social work Ms Ward's energies a social psychologist would be better directed at looking at what is wrong with a society which puts these intractable burdens on its citizens and requires an under-resourced and undervalued profession to deal with them.

Joyce Tombs
19 Cator Road
London SE26 5DT

Dangers of Certificate in Occupational Testing

While it would be ungenerous to fail to acknowledge the energy and drive displayed by the Steering Committee on Test Standards in preparing their lengthy consultative document, I do feel that the members of the Society should be alerted by a warning note about what is being proposed.

The Committee's intention to create a BPS Certificate in Occupational Testing has, in my view, several quite serious dangers. Not the least of these is that the proposal has overtones of turning the Society into a "regulatory body" - and moreover to set the regulations in a style that is both authoritarian and curiously old-fashioned.

One aspect of this "old-fashioned" outlook is the insistence on testers being trained - and qualified by certification - to administer, score, and interpret paper and pencil tests of abilities before allowing them to be trained to administer "personality" tests and questionnaires. In fact, of course, the administration of respectable modern "tests" of temperament, interests, etc. can really be a quite straightforward business when one is dealing with non-clinical measures for "normal" subjects.

Nor, in my view, is it either wise or necessary to make out that the skills required to administer and score paper and pencil tests are so specialised and demanding that one virtually creates a specialist technician grade of job for the possession of the vast majority of industrial and commercial organisations the number of people to be tested is not large enough to justify such a specialist job role - the testing can be done by suitably chosen clerks, secretaries, or junior Personnel Officers as an occasional part of their other day-to-day duties, after they have been given appropriate instruction and practice with the specific and quite limited number of tests that the firm chooses to adopt.

However, I find much more disturbing the inclusion in the document Psychological Testing - Guidance for the User of the remarkable claim on page 14 "Statistical surveys have produced the following as typical values - (of validity coefficients) Personality tests 0.15.

To those who know anything about the matter this is clearly nonsense - what surveys, of what personality tests, in what populations, and against what criterion measures?

But the booklet is addressed to non-psychologists, and its readers may be seriously misled into thinking that there really is sound evidence that personality test measurements are of such low validity as to be virtually useless.

The Steering Committee seems to be rushing at precipitate speed towards a nasty pile-up! Indeed, on the evidence from the two documents, the Steering Committee is distinctly "off its trolley!"

John D. Handyside
57 Gloucester Road
London SW7 40N

Psychoanalysis and psychology

David Shapiro's response (The Psychologist, September 1989) to my comments (July) regarding Professor Howarth's review of psychotherapy books (April) requires a brief reply. I did not mean to argue, as Shapiro suggests, that "psychoanalysis is beyond the pale of psychology". This would be an absurd assertion since psychoanalysis is inherently a branch of psychology. My point is rather that psychoanalysis has developed independently of academic psychology and relatively independently of clinical psychology. Whilst employing a different method it is an activity of immense rigour and discipline. I do believe that it is chauvinistic for psychoanalysts to criticise psychoanalysts for ignoring clinical psychologists' research, if the latter do not take the trouble to immerse themselves in psychoanalytic thinking. However, given goodwill and curiosity on both sides, it is possible for there to be an extremely creative intercourse between these distinct traditions, as I believe David Shapiro is aware.

Phil Mollon
District Psychologist and Adult Psychotherapist
North Hertfordshire Health Authority
Lister Hospital
Coreys Mill Lane
Stevenage SG1 4AB
Applications are now welcome for the Arbours Association training in Psychotherapy. This is a three year programme which follows a one year introductory course. The training leads to a Certificate in Psychotherapy and to membership of the Association of Arbours. Psychotherapists and our referral network. The training is an intensive programme of lectures and seminars which cover the major aspects of analytically orientated psychotherapy. The course also offers a unique opportunity for direct clinical experience. This takes the form of extended placements at our Therapeutic Communities and Crisis Centre where students, under supervision, can participate in group, individual and family therapy. Students are required to be in psychotherapy throughout their training. The course is designed to accommodate persons in full-time employment. Some bursaries are available. The next academic year starts from January, 1990

For further information, please contact:

The Co-ordinator, The Arbours Association, 6, Church Lane, London, N8 (Tel: 01-340 7646)

490 November 1989 The Psychologist
early meetings of the Professional Affairs Board when educational and clinical psychologists hotly, often acrimoniously, debated the question of transferability, a means whereby one breed of psychologist could qualify to be another without having to complete a full postgraduate course. Core courses with qualifying modules do not seem to have penetrated very far but maybe the Membership and Qualifications Board could take this up. At the same time, I had the great pleasure of serving on a Working Party, convened by the late Professor Jack Tizard, which was set up to consider the training of psychologists. That report apparently sank without trace because we were making a mistake in what was later to be the higher education needs of children not as “educational units” in schools or as “clinical units” in hospitals. As part of our considerations, I put a paper to the Working Party suggesting just such a case as has been made by Peter Farrell - it founded on the reef of clinical psychology. Should professionals get together? If they do not, I fear they are in for hard times. I am sure that in the educational market, self-governing schools are likely to be less tempted to buy our products - we come pretty expensive. Dare one forecast less business for clinical psychologists as large mental handicap hospitals decant their patients into the great outdoors - where they then become the clients of already hard-pressed social workers? Certainly, a local authority psychological service already well acquainted to working with social workers in multidisciplinary teams could absorb some of this trade. Many Training Agencies have discovered that psychologists, occupational or educational, can play an important role in developing assessment procedures and in presenting potential employers with the right stuff. I would commend Peter Farrell’s concept of a single applied psychological service but I do not think that it can truly come about until the profession begins to see itself initially as trained psychologists who then develop specialised skills. At the moment, the base line is a graduate degree in psychology which varies enormously from university to university. Possibly this should remain though I think that some thought by the Society should be given to more uniformity. Graduation is succeeded by a postgraduate course in the applied field or at least it should be a course of training recognised by the Society. I am certain that, if the two courses that lead to qualification as an applied psychologist were scanned, quite a proportion of common elements which could form the core of a postgraduate qualification could be filtered out. To become fully qualified in a particular field or specialism, it would be necessary to add the requisite number of options as modules of the course. Subsequently, by topping up with the appropriate modules, one could transfer (or qualify) in a different specialism. An advantage of such a scheme would be to create one profession, applied psychology, lead the way to one Department of Applied Psychology, covering the specific area (geographical) and help to stop some of the bickering at the boundaries. An Inter-Division initiative is the next step.

Douglas A.F. Conochie
Regional Educational Psychologist
Grampian Regional Council
Woodhill House
Ashgrove Road West
Aberdeen AB9 2LU

At one time Council Member, SPECP, Chair and representative of PAB, still a believer in the need for a College of Applied Psychology.

Information Section

Help needed

Social psychology technician requires any information on the topic of discourse processes in later life. Currently looking to investigate the perception of sleep as seen through the conversations of elderly people. Trying to understand the myths and dangers of homespun philosophies of retaining ideological conceptions of sleep with age.

Peter Beaman
Social Sciences Department
Loughborough University
Leicestershire LE11 3TU

In honour of Hans Eysenck

Although Professor Hans Eysenck officially departed from the Chair of Psychology at the Institute of Psychiatry more than five years ago, he is still so active in research and writing (not to say travel) that his colleagues find it hard to think of him as having retired. Nonetheless, it is so, and we think that the time has come to mark this fact in some appropriate manner. We have two possibilities in mind: commissioning a portrait of him to hang in the Institute of Psychiatry, or establishing an annual lecture to be named after him. Accordingly, we are establishing an annual lecture to be named after him. Accordingly, we are setting the funds required for either of these objectives.

May we appeal through your columns to anyone who would like to be associated with this venture and is prepared to give a donation to the fund (we suggest a sum of between £5 and £25). Cheques, made payable to ‘The Institute of Psychiatry’ and marked “H. Eysenck Fund”, should be posted to Professor Jeffrey Gray, Department of Psychology, at the address below, giving a clear indication of the donor’s name and address. The names of contributors will be recorded in a book which will eventually be presented to Professor Eysenck.

Jeffrey Gray
Irene Martin
Gerald Russell
Glenn Wilson
Institute of Psychiatry
De Crespigny Park
Danmark Hill
London SE5 8AF

SPIG - Children and Young People

The Committee of the Special Interest Group for Clinical Psychologists working with Children and Young People would welcome as new members any psychologists interested in this field.

Membership is open to clinical psychologists who are members of the BPS and DCP and subscription is open to trainee clinical psychologists, psychological technicians and members of other professions.

The subscription fee currently stands at £7. Conferences and workshops are organised on a regular basis and a newsletter is published three or four times a year.

Please write for application forms and further information about SPIG.

Alison Heard
Chartered Clinical Psychologist
SPIG (Children and Young People)
Clinical Psychology Service (Child Health)
Playfield House
Cupar
File KY15 5RR

MIND

MIND is currently updating its national list of Chartered Psychologists who are willing to give independent professional assessments for solicitors who are representing clients, eg. at Mental Health Review Tribunals. Any Chartered Psychologist interested in appearing on this list should write, with details of their experience to the Legal Department, MIND, at the address below. This list would then be made available to solicitors who are seeking details of available experts.

Ian Byne
Legal Director (Acting)
MIND
22 Harley Street
London W1N 2ED
Assistant Editor: Tony Gillie

WISEONE EXPERT SYSTEM SHELL

Swallowsford, PO Box No 107, Welton-on-Thames, Surry, KT12 5PO
Minimum requirements: Amstrad PCW 8256 with single disk drive. Supplied on 3-inch disk, with 84 pp manual. £34.95.

With the arrival of this software, Artificial Intelligence has moved into the realm of home computing. Hence, for this reviewer, after many years of hearing about AI, this opportunity became his first direct experience of it.

An expert system shell is a software package designed to help you create your own expert system on any suitable topic. The WiseOne shell, together with its seven example systems, is contained on one side of the distribution disk. The shell consists of two program modules: a Knowledge Builder, and a Consultant. Each occupies 32K of memory.

The manual serves both as a tutor and user guide. Its format is A5, with plastic comb spine permitting it to lay flat. The print is small, but quite clear, printed on both sides of stiff paper. The manual is divided into nine chapters. One of these is the tutorial, which involves extensive cross-referencing with the other chapters. Thus, the process of learning to use the shell necessarily involves acquiring familiarity with the full text. Unfortunately, the manual lacks an index.

The software runs under CP/M. The manual assumes that the user is not familiar with this operating aspect of the PCW, and provides instructions on how best to use the M-drive in conjunction with the WiseOne disk. The CP/M text editor RPED is then used for entering information. Locoscript can be used for this purpose also, but less conveniently, since the file has to be converted to ASCII before use.

The Knowledge Builder module provides the Knowledge Representation Language which is used to develop two files: one of rules, and the other of elements. Knowledge is seen as being made up of "rules", in the form of a conclusion based upon IF-conditions; nouns in these rules are defined as "elements". The Knowledge Builder then checks these files for errors, and when satisfied, combines them into a Knowledge Base file. It is this file which is processed by the Consultant module to draw inferences in response to the user's answers to questions.

As regards the expert system when ready for use, the inference mechanism appears to be relatively simple: a process of comparing element values with condition criteria. The Consultant operates over as many rules as necessary to arrive at a requested "Primary Goal", forming chains of rules in the process: a procedure described in the manual as: backward chaining.

Elements can be Boolean, numeric or "option". Elements may be supported by up to 255 characters of associated text, plus a facility to call-up a disk file of text of any length. Hence, help and explanatory text can be provided at any stage of a consultation.

The "primary goal" is that element selected by the user as the objective of the consultation (e.g. tax status). Rules may be given priority values (1 to 9) which determine the order of application. Special rule facilities include Print Rules, which activate (by "demon") text statements in response to a change in any element value at any time in the consultation. Similarly Stage Rules can be triggered to yield a conclusion or to institute a sequence of rules for further consideration.

I found that the process of working through the tutorial and the illustrative examples took some 30 hours. This included building a few simple practice systems.

The user "screens" leave a lot to be desired in terms of ease of use at first contact. A new user could not undertake a consultation without initial guidance. This difficulty could have been avoided if there had been two menu screens: one for the designer, and another for the client user.

Developers or suppliers of software likely to be of interest to psychologists are encouraged to send review copies to:

The Editor
The Psychologist
The British Psychological Society
St Andrews House
48 Princess Road East
LEICESTER LE1 7DR

November 1989
The Psychologist
The programming limitations on the knowledge base are 100 elements, 120 rules, and 350 conditions. In addition, each element is limited to 12 options, unless, that is, it is coded as numerical. Then one is restricted to integer values in the range 0 to 32000.

The largest example system supplied on the disk is the Tax Advisor. This has 43 elements, 37 rules and 64 conditions. Whereas the smaller example systems gave almost instantaneous advice, the performance of this system degraded to a delay of two to three seconds before displaying its advice.

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The largest example system supplied on the disk is the Tax Advisor. This has 43 elements, 37 rules and 64 conditions. Whereas the smaller example systems gave almost instantaneous advice, the performance of this system degraded to a delay of two to three seconds before displaying its advice.

A final point, if after trying the software you feel that you have not received value for money, then the suppliers offer to refund the purchase price.

Geoff Davies

COMMENTS BY SWALLOWSOFT

PUBLICATIONS

We regret that the reviewer was unable to make practical use of WiseOne, but without any explanation or examples of the difficulties experienced, it is not easy to comment upon the criticisms made. Three previous reviews have been positive in tone, and our standing offer of an immediate refund to dissatis­

fied purchasers has so far found no takers from a wide range of users, so we retain complete confidence in WiseOne.

Size of suitable domain

The example knowledge base on the selection of appropriate subjects for an Expert System uses explicitly stated criteria for domain size of a maximum of 50 different situations to be considered, and a maximum of 40 different answers or pieces of advice to be given. Many users have practical applications within these approximate guidelines. The re­

viewer may need a larger system than WiseOne.

User Screens

A range of facilities are provided for the designer to provide appropriate User Screens and guidance. There are also the standard Help facilities and a con­
stant Action Guide to what is going on. Other reviews have commented on the power and flexibility of these facilities.

Decision tree approach

Ultimately all knowledge can be re­
duced to decision tree form. Expert system knowledge is usually fairly com­
plicated however, and has multiple connections between decision nodes, and criteria which can affect several levels of a decision tree. WiseOne, like most other expert systems, handles this by keeping the various decision rules separate, and assembling a specific tree dynamically as a particular consultation progresses.

WiseOne further permits a decision pro­
cess to have multiple interacting factors, and allows such a multiply-connected decision process to be entered at any point. An example supplied is the selec­
tion of the type of power, cutting mechanism, drive and size of a lawn­
mower. Subtrees to cater for some users having more firm information than others can also complicate the picture.

For these reasons, drawing out all deci­
sion trees for all possible combinations of user responses for any significant knowledge base will consume far more than the "few sheets of A4" envisioned by the reviewer. It is the capability to use any piece of its knowledge at any time that is one of the most powerful features of an expert system. (This topic is described in Chapter 5 of the User Guide.)

Specific criticisms

i) The meaning of this point is not clear. If the reviewer expects any expert sys­
tem to have "world knowledge", he will remain disappointed for many years to come. WiseOne does perform many logical checks relating rules to element definitions, and appropriate inferences.

ii) WiseOne provides automatic file numbering on its element and rule out­
put listings, (which is particularly advantageous when additions or dele­
tions to a set of rules are made), and this printed listing can be used for checking errors. It does not amend user generated source files, and this is not felt to be a general requirement.

Other points

Many significant features of WiseOne are not mentioned in the review, such as the ability to match element values irrespective of their specific value, to carry out arithmetic within rules, and to volunteer and change user information or to ask "Why", during a consultation. Such facilities go some way to emulat­
ing a "discussion" with an expert.

Elements in rules can be descriptive clauses, not just nouns, e.g. "the likeli­hood that you prefer lager to beer" with corresponding values of "very likely", "unlikely" etc., or alternatively, numeric values.

The inference mechanism of backward chaining by condition matching is the standard basic process for Expert Sys­
tem Shells. However, WiseOne has significant additional features including immediate (demon) operation on any re­
quired conditions, rule grouping and prioritising, and other control facilities.

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Society

Round the Board Room Tables

Colin Newman reports on a meeting of the Professional Affairs Board on 15 September 1989

Anything but the silly season

During the summer several working parties of the Board finalised their reports and other contributors from the Divisions prepared comments for submission to Government Departments in response to consultation papers. Comments were submitted on the following topics or had been dispatched by the Chair during the summer.

- To the Department of Health on the NHS Review White Paper: Working for Patients
- To the Home Office on "Punishment, Custody and the Community"
- To the SHHD on the Kincaid Report on Parole and Related Matters
- To the Department of Health and the SHHD on "Access to Mental Health Records"
- To the IBA on proposed revisions to its Television Advertising Code

Steps were also taken to respond to an invitation from the Department of Health to comment on a Draft Code and Handbook on Confidentiality of Personal Health Information. This statement covering the contribution that psychology has to offer in the care and treatment of people suffering from AIDS, their carers and relations was welcomed by the Board and is to be sent to Health Authorities, to sexually transmitted disease clinics and behavioural medicine units.

Dr Newman is Executive Secretary of the Society.

Dr Alan John PARKIN
Mr David Francis PECK
Ms Wendy Ann PRITCHARD
Mr Reginald George SELLI
Dr John Anthony SLOBODA
Dr Mary Murray SMYTH
Dr Peter Michael STRATTON
Dr Glym Vivian THOMAS
Dr Michael John TOBIN
Dr Mona Manwah TSOI
Dr Louise Margaret WALLACE
Dr Alec WEBSTER
Dr Keith Andrew WESNES
Dr Patricia WRIGHT

Students' Award Committee

Thursday 21 November

Elected on 6 October 1989

Dr John BODDY
Dr Johnson Lockyer BRADSHAW
Dr Victoria Geraldine BRUCE
Professor Roy DAVIS
Professor Nicholas Peter EMLER
Dr James Rupert Gawayne FURNELL
Dr Jean Fraser HARTLEY
Dr John Michael INNES
Dr Alan LEWIS
Dr Nadina Berrie LINCOLN
Miss Ingrid Cecilia LUNT
Dr Donald MARCER
Dr Frank Edmond MERRETT
Dr Joyce Mildred MORRIS

Finance and General Purposes Standing Committee

Friday 17 November

Dates of Meetings 1990

Annual General Meeting
Saturday 7 April

Council
Saturday 24 February
Saturday 19 May
Saturday 13 October

Finance and General Purposes Standing Committee
Friday 5 January
Friday 23 February
Friday 16 March
Friday 6 April
Friday 27 April
Friday 18 May
Friday 15 June
Friday 7 September
Friday 12 October

Professional Affairs Board
Wednesday 4 April (Followed by Spearman Medal Committee)
Friday 28 June

Membership and Qualifications Board
Saturday 27 January
Saturday 24 March
Friday 11 May
Friday 6 July
Friday 21 September

Postgraduate Admissions Committee
Thursday 25 January
Thursday 15 March
Thursday 3 May
Thursday 28 June
Thursday 13 September

Standing Committee on Communications
Friday 2 February
Sunday 8 April
Monday 2 July
Tuesday 16 October
IVTH EUROPEAN CONFERENCE ON DEVELOPMENTAL PSYCHOLOGY
AT THE UNIVERSITY OF STIRLING, SCOTLAND
27-31 August 1990

(incorporating the Developmental Psychology Section Annual Conference)
The University of Stirling is privileged to host the IVth European Conference on Developmental Psychology. Previous European Conferences have been held at Groningen, Netherlands; Rome, Italy and Budapest, Hungary. The aims of the Conference on Developmental Psychology are to promote the discovery, dissemination and application of knowledge of human developmental processes at all stages of the lifespan from infancy to childhood, adolescence, adulthood and old age. This meeting will be of interest to many academics and practitioners.

For further details write to: The Conference Organiser Department of Psychology University of Stirling FK9 4LA Scotland

DIVISION OF EDUCATIONAL AND CHILD PSYCHOLOGY
ANNUAL COURSE
2-5 January 1990

EFFECTIVE APPLICATIONS OF PSYCHOLOGY IN EDUCATION
Femlea, Glendower and Lindum Hotels, St Anne's-on-Sea, Near Blackpool

KEYNOTE SPEAKERS will be:
Tony Dessent - Principal Educational Psychologist Nottinghamshire
Dave Kearney - Psychologist with OPD Consultants
Peter Mittler - Professor of Special Education University of Manchester
Valerie Walkerdine - Senior Lecturer in Psychology, Birmingham Polytechnic

WORKSHOPS AND SEMINARS will include:
Psychology and Personal Well-being Poor supervision for EPs; beyond stress management; therapeutic groupwork with teenagers; story-telling as a teaching option; teacher support groups; prescriptive social skills programmes; bullying - is there anything we can do?; the child as self - three case studies; from TA to teacher appraisal; Rational Emotive Therapy; relaxation techniques workshops for children; stress in care - boys in O & A centres; stress and women in education.

Psychology and Effective Learning
Identifying special needs and providing IEPs through a whole-school approach; a menu of materials for parents preparing their young children for school; was the Gerbil a Marxist mole? - some thoughts on ERA and the possible response from EPs; individual programmes and the National Curriculum; assessing specific learning difficulties; primary science - genetic epistemology in the classroom; results of the DECP national enquiry into specific learning difficulties.

Psychology and Partnership
Working with parents; better partnership with Governors; what parents want to know; home-based reinforcement in secondary schools; troubles in services - problems of inadequate partnership; development of within-team support processes; joint working to develop services for the mentally handicapped; Pathfinder project; co-working in support of integration.

COST
Full course residential (DECP member) £160; (Non-DECP) £170
Full course non-residential (DECP member) £110; (Non-DECP) £120
Application forms and further details available from:
Valerie Bull/Sue Tewley
The British Psychological Society
St Andrews House
46 Princess Road East
Leicester LE1 7DR

DIVISION OF EDUCATIONAL AND CHILD PSYCHOLOGY
NOTICE OF ANNUAL GENERAL MEETING: 1990

Notice is hereby given that the Annual General Meeting of the Division of Educational and Child Psychology will be held during the 1990 DECP course, 2-5 January 1990 (the exact date and time must be announced later) at the Femlea, Glendower and Lindum Hotels, St Anne's-on-Sea, near Blackpool. Resolution items for the AGM and nominations for vacancies on the committee must be received by 16 November 1989.

CALL FOR NOMINATIONS
Nominations are invited for:
Honorary Secretary: To be elected for three years. (The present Honorary Secretary, Ms J. Feinmann and Mr M. Gledhill who have both served for three years.) According to Rule 18 they are eligible for re-election.
Committee Members: To be elected for three years. (The retiring Committee Members are Ms J. Feinmann and Mr M. Gledhill who have both served for three years.) According to Rule 18 they are eligible for re-election. There is a further vacancy on the Committee.

Nominations must be received by 16 November 1989 for election. Applications with cheque for £15 (includes coffee, tea and lunch) to Cassie Cooper, Harrow College of Higher Education, Northwick Park, Watford Road, Harrow HA1 3TP. Tel: 01 845 5222 Ext 223

DIVISION OF CLINICAL PSYCHOLOGY
RESEARCH INTEREST GROUP
Research Issues In Health Psychology
1 December 1989
Prestwich Hospital, Manchester

The AGM will be held at 2 pm on Saturday 3 February, 1990 at 1 Daleham Gardens, London NW3 5QY

Nominations are invited for election of Chair-elect, Honorary Secretary, Honorary Treasurer, and ordinary members of the Section Committee. Any two or more members of the Section may nominate candidates, and these nominations, together with the written consent of the nominees to accept office if elected, should be deposited with the Honorary Secretary, by 23 December 1989, at the latest.

The AGM will be preceded by a Scientific Meeting in the morning, and following the AGM Anthea Keller, Chair-elect, will address the Section. Further details will appear at a later date, and are available from Cassie Cooper, Chair-elect, who can be contacted at Cassie Cooper, Harrow College of Higher Education, Northwick Park, Watford Road, Harrow HA1 3TP.

Richard Marshall, Hon Sec
Harrow Psychological Service
Community Unit
Memorial House
Standard Hill
Nottingham NG1 6FX
HEALTH PSYCHOLOGY SECTION
NOTICE OF ANNUAL GENERAL MEETING AND CALL FOR NOMINATIONS
Notice is hereby given that the Annual General Meeting of the Health Psychology Section will be held during the Society’s London Conference, 19-20 December at the Institute of Education, London (the exact date and time to be notified later).
Nominations are invited for the offices of Chair and Honorary Secretary/Treasurer and committee members.
Nominations require a proposer and second who should be members of the Section and the consent of the nominee to accept office if elected.
Forms should be completed and returned to:
Paul Bennett
Honorary Secretary
Health Psychology Section
c/o The British Psychological Society
St Andrews House
48 Princess Road East
Leicester LE1 7DR
By 14 November 1989

WELSH BRANCH
NOTICE OF THE ANNUAL GENERAL MEETING AND CALL FOR NOMINATIONS
Notice is hereby given that the Annual General Meeting of the Welsh Branch will be held on Wednesday 29 November 1989 at 6.45 pm in the Polytechnic of Wales, Pontypridd. All Branch members are encouraged to attend.
Nominations are invited for the election of Officers and Committee Members. The current Honorary Secretary/Treasurer, Gill Penny, is eligible to stand for re-election. Committee members eligible for re-election are Chris Barry, Pamela Kenzly, Ian Taylor and Teresa Winiarski Jones.
Nominations require a proposer and second who should be members of the Welsh Branch and the consent of the nominee to accept office if elected. Nominations should be sent, in writing, to the Secretary of the Welsh Branch as soon as possible.
Address for nominations:
Dr Gill Penny
Department of Behaviour and Communications Studies
The Polytechnic of Wales
Pontypridd
Mid Glamorgan CF37 1DL

NATIONAL GROUP OF GRADUATE PSYCHOLOGISTS
WITH SPECIAL INTEREST IN CLINICAL PSYCHOLOGY
There will be a meeting of the National Group of Graduate Psychologists (with Special Interest in Clinical Psychology) on: Tuesday 21 November
At: 12.30 pm
In: The Seminar Room, Clinical Sciences Building, Leicester Royal Infirmary
For further details telephone: Laura Foster Tel: 0533 863481 Ext 347
Everyone welcome

DIVISION OF OCCUPATIONAL PSYCHOLOGY
NOTICE OF ANNUAL GENERAL MEETING AND CALL FOR NOMINATIONS
Notice is hereby given that the Annual General Meeting of the Division of Occupational Psychology will be held during the Occupational Psychology Conference, 3-5 January 1990, at the Belfield and New England hotels, Bowness-on-Windermere, Cumbria when Annual Reports will be presented and business transacted. We are therefore asking for resolution items for the Annual General Meeting and nominations which must be received by 17 November 1989.
Nominations for the election of the Chair-Elect, Honorary Secretary, Honorary Treasurer and Committee Members (three vacancies each for three years) should be sent to the Honorary Secretary at the Society’s office to arrive no later than 17 November 1989. The nominations require a proposer and second, who must be Full Members of the Division and the consent of the nominee to accept office, if elected, must be obtained in writing.
Roger Miles has served for one year as Honorary Secretary and is eligible for re-election. John Barker will be retiring as Honorary Treasurer and is not eligible for re-election. Tony Jackson is a retiring committee member.
Journals of the British Psychological Society cont...
British Journal of Mathematical and Statistical Psychology
British Journal of Developmental Psychology
Journal of Occupational Psychology
British Journal of Educational Psychology

SPECIAL GROUP IN COUNSELLING PSYCHOLOGY
NOTICE OF ANNUAL GENERAL MEETING
Notice is hereby given that the first Annual General Meeting of the British Psychological Society, Special Group in Counselling Psychology, will be held at Beches Management Centre, Bournville, Birmingham on Friday 26 January 1990 from 8 pm - 9 pm.
CALL FOR NOMINATIONS
Nominations for officers and executive committee members, together with the name of the proposer and second, all of whom must be members of the Special Group in Counselling Psychology, should be sent to Mr M Khan, Honorary Secretary, 4 Street Lane, Leeds, West Yorks LS8 2ET to arrive by Friday 1 December 1989.
Note: Following the vote by Section and Group Members that the Section should merge into the Special Group, all members of the former Counselling Psychology Section are members of the Special Group in Counselling Psychology and entitled to nominate and be nominated.
Mr M Khan
Honorary Secretary
October 1989

COUNSELLING PSYCHOLOGY IN THE 1990s
FIRST ANNUAL CONFERENCE AND AGM OF THE SPECIAL GROUP IN COUNSELLING PSYCHOLOGY
26-28 January 1990
To celebrate the foundation of the new Special Group in Counselling Psychology, the first Annual Conference and AGM will be a residential event held in the comfortable setting of Beches Management Centre, Bournville, Birmingham.
Starting on the afternoon of Friday 26 January till teatime on Sunday 28, the conference will include a mixture of symposia and workshops on the following themes within counselling psychology: professional development issues; education and training; occupational and commercial interests; health issues; loss, trauma and disaster; and developing models of counselling psychology.
Further details and registration forms may be obtained by sending an SAE before 1 December to the Conference Organiser: Mrs Carol Shillito-Clarke 19 Worthy Lane Winchester SO23 7AB
News of Members

RICHARD BALL, formerly Principal Clinical Psychologist with Sandwell Health Authority, has taken up appointment as Head of Psychology Services for People with Learning Difficulties (Top Grade), Coventry Health Authority from August 1989.

MALCOLM BALLANTINE, formerly Lecturer in Occupational Psychology at Bikrish College, has been appointed Senior Consultant at Walpole Training and Development Ltd, 61-63 St John Street, London EC1M 4AN, Tel: 01 253 2340.

CHRISTINE BLINCOE, formerly Top Grade Clinical Psychologist with Walsall Health Authority, took up post as District Clinical Psychologist with Sandwell Health Authority in September 1989. Her address is: Firs Clinic, Firs Lane, Smethwick, Warley, West Midlands B67 6AE.

DR ROBERT A. BOAKES has recently moved to Australia to take up a Professorship at the University of Sydney. His address is: Department of Psychology, University of Sydney, New South Wales 2006, Australia, Fax: (02) 692 4555, email: bob@psychvax.su.oz.

DR L.B. HENDRY, Head of Department, University of Aberdeen, has been awarded a Personal Chair in Education from 1 July 1989.

PROFESSOR PETER HERRIOT will be Director of Research, Sunderridge Park Management Centre from 1 January 1990.

DR CLIVE HOLLIN, formerly of the University of Leicester, has been appointed Senior Lecturer in Psychology at the University of Birmingham, seconded part-time as Research Psychologist at Glenhorne Youth Treatment Centre, Birmingham. He can be contacted at the School of Psychology, University of Birmingham, PO Box 363, Birmingham B15 2TT, Tel: 021 414 4937 and at Glenhorne YTC, Kingsbury Road, Erdington, Birmingham B24 9SA, Tel: 021 382 5909.

DR CHARLES JACKSON has left the School of Psychology in Cardiff to join the Institute of Manpower Studies at the University of Sussex.

COMMITTEE SKILLS WORKSHOP

A workshop on Committee Skills will be held on Tuesday 19 December 1989 at the Institute of Education, Bedford Way, London (during the Society's London Conference). The Workshop will be led by Kathleen Cox an Educational Psychologist, and is sponsored by the Society's Standing Committee on Communications. There will be no charge for the Workshop and numbers will be limited.

For details and a registration form, which must be returned by 17 November 1989, write to:

Stephen White
Director of Information

The British Psychological Society

St Andrews House

48 Princess Road East

Leicester LE1 7DR

Standing Press Committee

MEDIA SKILLS WORKSHOP

A media skills workshop will be held on Monday 18 December 1989 at the Institute of Education, London (the day prior to the start of the London Conference). Included will be exercises on news writing, press release preparation and sessions on how the media operates. Professional journalists will act as tutors.

For programme and registration form contact:

Stephen White
Director of Information

The British Psychological Society

St Andrews House

48 Princess Road East

Leicester LE1 7DR

0533 549566

Psychology and Physical Disability in the National Health Service

Report of the Professional Affairs Board
British Psychological Society

1989

The full, 120 page version of this report is now complete and will soon be available £5, including postage.

If you require a copy, a quick response would be appreciated.

Please send request and cheque for £5 made payable to "The BPS" to:

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48 Princess Road East

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Society for Research into Higher Education Awards 1990
The Society for Research into Higher Education invites members to apply for Fellowship or Associateship of the Society. Applications or nominations should be accompanied by a statement of qualifications and achievements, and the names of two persons who may be consulted by the Awards Panel. They should be received by the Honorary Secretary of the Society at Guildford by 1 March 1990.

The criteria for these awards are set out in "Notes for Applicants" obtainable on request from the SRHE office. In general, a Fellowship of the Society will be awarded where there is evidence of a sustained and significant contribution to knowledge and understanding of higher education. An Associateship will be awarded for a demonstrable contribution, especially from younger workers in the field.

Full details from:
SRHE
At The University
Guildford GU1 6SX
Tel: 0483 39003
Fax: 0483 39000

First International Conference on Psychology and the Performing Arts
Institute of Psychiatry, London
5-7 July 1990
Abstracts and enquiries:
Dr Glenn Wilson
Institute of Psychiatry
De Crespigny Park
London SE5 9AF
Tel: 01 703 5411 Ext 3254

Treating the Aggressive Client
London: 20-21 November 1989
A two-day course on anger control techniques which have been successfully used to treat violent individuals.
Details from:
Dr Barry McGurk
Psychological Services
Horton Way
Farnham

Royal Society Lecture
The Ferrier Lecture
Side Glances at Blindslight: Recent approaches to implicit discrimination in human cortical blindness
By Professor L. Weiskrantz, F.R.S. Professor of Psychology in the University of Oxford. Wednesday 15 November 1989, 5.30 pm.
At University College London, Chemistry Auditorium, The Christopher Ingold Building, 2 Gordon Street, London WC1.
All are welcome to attend.
Details:
Tel: 01 380 7558 (The Vice-Provost, University College London)

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Fiona Hammond
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Fax: 01 637 5227

Unblocking Assertive Actions
A Change Strategies Workshop: facilitated by Rose Evison
Friday 16 February 1990, 10.15-17.15 in Sheffield
Developing the Whole Person in their Job or Life Context
Participants will work on real situations where they wish to behave differently in the future, using practical methods which can be continued afterwards. The methods will be of interest to applied psychologists.
The practical work illustrates the principle of reinforcing optimum learning strategies by removing or reducing interfering intra-psychic blocks (rigid responses).
Cost: £80, BPS members £45.
Further details from:
Rose Evison, C.Psychol, AFBPsS
5 Victoria Road
Broomhall
Sheffield S10 2DJ
Tel: 0742 686371

22nd International Congress of Applied Psychology
Kyoto, Japan
22-27 July 1990
For further information contact:
Professor Yasuhisa Nagayama
Secretary General of the Local Organising Committee
22 ICAP
PO Box 38, Sulta-Senni
Osaka 565
Japan

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Hypnosis Course (Ericksonian)
Two Weekend Intensive at St. Ann's Hospital, London 18th/19th/25th/26th Nov

- Practical Skills
- Clinical Demonstrations
- Certification

For brochure please write or telephone:
British Hypnosis Research 8 Paston Place Brighton BN2 1HA Tel: (0273) 693622

The 3rd British Brain Mapping Conference at the Institute of Psychiatry De Crespigny Park, Denmark Hill, London SE5 8AF 28th and 29th November 1989
A two day conference to present the clinical experience obtained with Topographic Brain Mapping Systems for both spontaneous EEG activity and Evoked Potential Analysis in hospitals and clinics.

Day 1: Speakers:
Dr Horace Townsend - U.K.
Dr Bruce MacGillivray - U.K.
Dr Kurt Lohmann - West Germany
Prof. Roy McClelland - U.K.
Dr Paul McCullagh -U.K. Dr Michael Sedgwick U.K.
Prof. Graham Harding - U.K.
Dr Roger Thornton - U.K.
Prof. Francois Mauguiere - France Dr David Wadbrook - U.K.

Day 2: Hands-on Experience
Cost of the conference is £40.00 for Day 1 and £25 for Day 2 - space on Day 2 is limited and therefore early registration is essential.

Registration and enquiries to: Dr Peter Fenwick, Institute of Psychiatry, De Crespigny Park, Denmark Hill, London SE5 8AF Telephone 01-703-5411 Anyone wishing to present a poster should contact Dr Peter Fenwick at the above.

THE TEACHING OF WRITING, SPEL�ING AND READING
1990 is International Literacy Year. On Saturday 6th January 1990, at the CHESTER INTERNATIONAL HOTEL, Chester, (Cheshire, England) a one day course has been organised to draw attention to an exciting new way of teaching writing, spelling and reading. Evidence, much of it recorded on video, indicates that the pack would be extremely useful for those who work with, or have responsibilities for, the under 5's, school-age children (especially those working within the National Curriculum) and adults. The course also includes substantial reference to the teaching of dyslexics and shows how a single teacher can use the SIMPLE STEPS PACK to teach large classes.

For further details send an S.A.E. to:
THE SIMPLE STEPS PACK COURSE, WRITETRACK, 11A KILMOREY PARK, HOOLE, CHESTER, Cheshire, England. U.K. CH2 3QS

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7 Counselling Workshop. Finchley, London. Details: Dr S. Delroy (01346 4010). (See Nov 89).
8 Stress Management Training Workshop. Centre for Stress Management. Details: S. Palmer (01 293 4114). (See Aug 89).
9-10 Type and Team Development - workshop. Details: Oxford Psychologists Press (0865 510203). (See Apr 89).
9-10 Contemporary Literary Theory and Psychotherapy - seminar. Dunham. Details: Dr M. Mair (0386 55301 Ext 2271). (See Sep 89).
9-10 Benzodiazepine Withdrawal Workshop. Cardiff. Details: Withdraw Workshop (021 471 3626). (See Apr 89).
10 Forum on Augmentative/Alternative Systems of Communication. Details: The National Hospitals College of Speech Sciences (01 837 0112). (See Jun 89).
10-13 Annual Winter School. Buxton. Details: Centre for Personal Construct Psychology (01346 8675). (See Oct 89).
10-13 Conference on High Ability. The European Council for High Ability, in Zurich. Details: Dr J. Freeman (061 986 492). (See Oct 88).
11 Margaret Lowenfeld Day Conference. Cambridge. Details: Child Care and Development Group, Free School Lane, Cambridge CB2 3RF. (See Sep 89).

11-12 Basic Training Course in Hypnosis. West Midlands Society of Hypnotherapy and Psychotherapy. Details: Dr D. Evans (021 327 6401). (See Sep 89).
13-14 Gestalt Fundamentals Course. Details: metanoia (01 579 2505). (See Nov 89).
15-16 Assisted Communication for Children with Severe Physical Disability - course. Institute of Child Health. Details: The Wolston Centre (01387 7618). (See Oct 89).
15 Continuation One-Day Workshop. Finchley, London. Details: Dr S. Delroy (01346 4010). (See Nov 89).
16 Expressing Ourselves Thru' Images: Body Images - day workshop. Details: J. Isaacs (01 876 5223). (See Sep 89).
17 The Ferrer Lecture. University College London. Details: The Vice-Provost (01 380 7558). (See Nov 89).
18-20 Expressing Ourselves as Carers - workshop. Details: The National Hospitals College of Speech Sciences (01 837 0112). (See Jun 89).
19-20 Allowing the Self to Hold Its Own - workshop. Details: Centre for Personal Construct Psychology (01 834 8675). (See Oct 89).
19-20 Nocturnal Enuresis: Sharing New Research and Practice - conference. London. Details: Enuresis Resource and Information Centre Secretariat, 65 West Drive, Sutton SM2 7NB. (See Jul 89).
19-20 Psychological Perspectives on Age and Time. Psychotherapy Section Conference. London. Details: C. Cooper (01 864 5422 Ext 223). (See Nov 89).
19-20 Ericksonian Hypnosis Course. London. Details: British Hypnosis Research (0273 693622). (See Nov 89).
20 Stress Management Workshop. London. Details: Dr S. Delroy (01 346 4010). (See Nov 89).
20-24 The Ruth Griffiths Course: Baby&Infants Scales. The McKeith Centre, Brighton. Details: P. Preston (01 647 7543).
20-21 Treating the Aggressive Client - course. London. Details: B. McGuirk (0322 865424). (See Oct 89).
21 National Group of Graduate Psychologists (with Special Interest in Clinical Psychology) - meeting. Leicester. Details: L. Foster (0533 853481 Ext 347). (See Nov 89).
21-24 Nov, 13-15 Dec, 17-19 Jan 3 Unit Basic General Course. Details: Centre for Personal Construct Psychology (01 834 8675). (See Oct 89).
22 Family Therapy with Orthodox Jewish Families - meeting. Jewish Mental Health Group. Details: 01 431 3916 or 01 670 9061 (evs). (See Sep 89).
22-23 Head Injury Rehabilitation: Towards 2000 AD - conference. Southport & Formby District Psychology Service. Details: J. Blackburn (0704 47471 Ext 3470). (See Sep 86).
23-26 Psychology and Psychologists Today - conference. 2nd Convention of Portuguese Psychologists Association. Lisbon, Portugal. Details: Dr L.S. Almeida (010 351 2 9853963). (See Jun 89).
24 Educational Reform and Legislative Changes - The implications for Educational Psychology in Scotland SDECP and ASPEP. Glasgow. Details: T. Williams, c/o The Psychological Society, 2 Donaldson Ave, Saltcoats KA21 5AG. (See Oct 89).
25-26 The Future Career of the Adult Psychotherapist in the NHS: The Ways Ahead - conference. Association for Psychoanalytic Psychotherapy in the NHS and The Scottish Psychoanalytic Psychotherapists. Details: J. Ansell or Dr A. Zachary (01 794 8262). (See Sep 89).
27 Implementing Preventive Support Services for Schizophrenia - conference. London. Details: Research Secretary, MIND (01 637 0741). (See Sep 89).
27-28 Counselling Skills Workshop. Finchley, London. Details: Dr S. Delroy (01 346 4010). (See Nov 89).
29 Welsh Branch Scientific Meeting and AGM. Alcohol, Other Drugs, and the Family in Cross-cultural Perspective. Pontypidd. Details: Dr G. Penny (0643 694608 Ext 2560).
29-30 3rd British Brain Mapping Conference. Details: P. Fenwick, Institute of Psychiatry (01 703 5411). (See Nov 89).

DECEMBER 1989

1 Research Issues in Health Psychology. DCP Research Interest Group, Manchester. Details: D. Kirby, Regional Secure Unit, St Bernard's Wing, Eating Hospital, Uxbridge Road, Southall, Middx UB8 3EU. (See Nov 89).
1 Psychological Aspects of Disasters - conference. BPS and DCP. Scottish Branches, Edinburgh. Details: L. Bakke (031 392 2566 Ext 205/270). (See Oct 89).
1 Psychological Dyslexia in Developmental Verbal Dyspraxia - lecture. Details: The National Hospitals College of Speech Sciences (01 837 0112). (See Jun 89).
2-3 BSEC Intermediate Training in Clinical Hypnosis. University of Hull. Details: B. Hart (0724 282282). (See Nov 89).
3 Counselling Skills Workshop. Finchley, London. Details: Dr S. Delroy (01 346 4010). (See Oct 89).
5-6 Effective Explaining and Lecturing Skills - course. South Manchester Rehabilitation Centre. Details: The Secretary, Whittington Hospital (061 447 3409). (See Nov 89.)

6 Psychological Aspects of Brain Injury - seminar. Royal Hospital, Middlesbrough. Details: Conference Secretary, RHHP (01 786 451 Ext 251). (See Sep 89.)

6 Cross-cultural Counselling - meeting. Special Group/Section of Counselling Psychology NE Branch. Details: M. Khan (0274 452 567). (See Sep 89.)

6 Stress Management Training Workshop. The Centre for Stress Management. Details: S. Palmer (01 293 4114). (See Aug 89.)

7-8 Firo-B - workshop. Details: Oxford Psychologists Press (0865 510 203). (See Apr 89.)

7-8 Ascertaining Training for Professionals in the National Health Service - course. South Manchester - Rehabilitation Demonstration Centre. Details: The Secretary, Wythenshawe Hospital (061 447 3409). (See Nov 89.)

8 Paediatric Neuropsychology. New Directions in Assessment and Evaluation? DCP Special Interest Group for Clinical Psychologists working with Children and Young People. London. Details: J. Middleton (0737 357 171). (See Oct 89.)

8 Metanoia Society. Details: 14-20 Counselling (021 291 348). (See Aug 89.)

9 Cognitive Therapy in Traumatic Practical Analysis. Details: metanoia (01 579 2505). (See Oct 89.)

9-10 Intermediate Training Course in Hypnosis. West Midlands Society of Hypnotherapy and Psychotherapy. Details: Dr D. Evans (021 237 6407). (See Sep 89.)

14-20 Counselling Course. Finchley, London. Details: Dr S. Delroy (01 346 4010). (See Nov 89.)

18 Media Skills Workshop. Institute of Education, London. Details: S. White, BPS Office (0533 549 2658). (See Nov 89.)

19 Committee Skills Workshop. Institute of Education, London. Details: S. White (0533 549 2658). (See Nov 89.)

19-20 BPS London Conference. Institute of Education. Details: Conference Hotline (0533 557 1223). (See Oct 89.)

19-22 17th Annual Meeting of the Psychophysiology Society. Details: S. White, BPS Office (0533 549 2658). (See Nov 89.)

27-28 Counselling Skills Workshop. Finchley, London. Details: Dr S. Delroy (01 346 4010). (See Oct 89.)

JANUARY 1990

2-5 DECP Annual Course and AGM. Effective Applications of Psychology in Education. St Anne's-on-Sea. Details: V. Bull/S. Tewley, BPS Office (0533 549 2658). (See Nov 89.)

2-7 Managing Groups. 18th Annual Training Laboratory of the Group Relations Training Association. Manchester. Details: D. Jaques (0865 724 1411). (See Nov 89.)

3-5 Occupational Psychology Conference and AGM. st Anne's-on-Sea. Occupational Psychology Division and Section. (See Nov 89.)

6 The Teaching of Writing, Spelling and Reading - course. Chester. Details: The Simple Steps Pick Course. Writertrack, 11a Kirn Kira 57, Hooil. Chester CH2 3QS. (See Nov 89.)

6-7 Introductory Course in Transactional Analysis. Details: metanoia (01 579 2505). (See Oct 89.)

10,17,24,31 Jan, 7,14,21,28 Feb, 7,14 Mar Psycho-analysis in Britain Today: Developments - Theoretical and Clinical Implications - lectures and seminars. British Psycho-Analytical Society. Details: Institute of Psycho-Analysis, 63 New Cavendish Street, London W1M 7RD. (See Jun 89.)

12 Reading and Communication Problems Following Acquired Brain Injury - lecture series. Details: The Secretary, National Hospitals College of Speech Sciences (01 837 0112). (See Sep 89.)

15-19 Physical Disabilities - course. Institute of Child Health. Details: The Wolfson Centre (01 837 7618). (See Oct 89.)

15 Jan - 2 Feb Neurology and Physical Disabilities - course. Institute of Child Health. Details: The Wolfson Centre (01 837 7618). (See Oct 89.)

20-21 Advanced Training Course in Hypnosis. West Midlands Society of Hypnotherapy and Psychotherapy. Details: Dr D. Evans (021 237 6401). (See Sep 89.)

22-26 The Neurological Basis of Childhood Disability - course. Institute of Child Health. Details: The Wolfson Centre (01 837 7618). (See Oct 89.)

23 Introducing Creative Drama - course. Details: The Secretary, The National Hospitals College of Speech Sciences (01 837 0112). (See Sep 89.)

23-25 Stress Management Workshop. Highbury, London. Details: Dr S. Delroy (01 346 4010). (See Sep 89.)

24 Developing Creative Drama - course. Details: The Secretary, The National Hospitals College of Speech Sciences. Details: The Secretary, The National Hospitals College of Speech Sciences (01 837 0112). (See Sep 89.)

25 Children with Hearing Impairment - course. South Manchester - Rehabilitation Demonstration Centre. Details: The Secretary, Whittington Hospital (061 447 3409). (See Nov 89.)

25-26 Social Skills and the Speech Impaired - course. Details: The Secretary, The National Hospitals College of Speech Sciences (01 837 0112). (See Sep 89.)

26 Special Group in Counselling Psychology AGM. Birmingham. Details: M. Khan, 4 Street Lane, Leeds, West Yorks LS8 2ET. (See Nov 89.)

26-28 Counselling Psychology in the 1990s. 1st Annual Conference and AGM of the Special Group in Counselling Psychology. Details: C. Shillito-Clarke, 19 Worthy Lane, Winchester SO23 7AB. (See Nov 89.)

26-28 Passing - Programme Analysis of Service Systems' Implementation of Normalisation Goals - course. Details: Castle Priory College (0491 370 051). (See Nov 89.)

29 Continuation Counselling Workshop. Finchley, London. Details: Dr S. Delroy (01 346 4010). (See Aug 89.)

29-30 The "Clumsy" Child - course. Institute of Child Health. Details: The Wolfson Centre (01 837 7618). (See Oct 89.)

FEBRUARY 1990

2-3 Shame: Theoretical and Clinical Aspects - conference. Details: The Conference Secretary, Psychoanalysis Unit, University College London, 26 Bedford Way, London WC1H 0AP. (See Nov 89.)

3 Psychotherapy Section AGM. London. Details: Richard Marshall, Nottingham Psychological Service, Community Unit, Memorial House, Standard Hill, Nottingham NG1 6FX. (See Nov 89.)

5 Stress Management Workshop. London. Details: Dr S. Delroy (01 346 4010). (See Oct 89.)

7-9 Withdrawal-oriented Therapy for Smokers - course. Institute of Psychiatry and the Maidstone Hospital, London. Details: Dr W. Boyle, Addiction Research Unit (01 703 541 11 Ext 3447). (See Nov 89.)

9 Cognitive Neuropsychological Research with Children - lecture series. Details: The Secretary, The National Hospitals College of Speech Sciences (01 837 0112). (See Sep 89.)

9 Unblocking Assertive Actions. Change Strategies Workshop. Sheffield. Details: R. Evison (0742 666 371). (See Nov 89.)

16-27 Child Psychology in the USSR - tour. Moscow/Vladimir/Leningrad. Details: Interchange (01 861 3612). (See Sep 89.)

22-28 Counselling Skills Course. Finchley, London. Details: Dr S. Delroy (01 346 4010). (See Oct 89.)

MARCH 1990

1-2 The Art of Supervision - course. Details: The Secretary, The National Hospitals College of Speech Sciences (01 837 0112). (See Sep 89.)

5 Stress Management Workshop. London. Details: Dr S. Delroy (01 346 4010). (See Oct 89.)

12-16 Developmental Neuropsychology - course. Institute of Child Health. Details: The Wolfson Centre (01 837 7618). (See Oct 89.)

15-17 American Psychology-Law Society Biennial Meeting. Williamsburg, Virginia. Details: K. Ozolitis, Law and Psychology Program, 209 Burnett Hall, University of Nebraska, Lincoln, Nebraska 68586. (See Oct 89.)

16 Communication Disorders Presenting in a Paediatric Audiology Clinic - lecture series. Details: The Secretary, The National College of Speech Sciences (01 837 0112). (See Sep 89.)

27-29 Stress Management Workshop. Highbury, London. Details: Dr S. Delroy (01 346 4010). (See Oct 89.)

APRIL 1990

1-4 19th Annual Meeting of the Society for Psychotherapy Research (UK). Ravenscar. Details: Dr M. Startup, MRC/ESRC SAPI, Dept of Psychology, The University, Sheffield S10 2TN. (See Sep 89.)

2 Stress Management Workshop. London. Details: Dr S. Delroy (01 346 4010). (See Aug 89.)

2-3 The Management of Stress at Work - course. Details: The Secretary, The National Hospitals College of Speech Sciences (01 837 0112). (See Sep 89.)
A Balance Sheet on Bathing

Nicky Hayes reports on recent investigations into a widespread human behaviour.

Many theories have been proposed to explain that ubiquitous human activity: bathing. Psychoanalysts argue that bathing represents a return to the warm, immobilising fluids of the mother’s womb—satisfying a perpetual craving for that ambience and security lost for ever during the birth trauma. Nativists perceive in bathing an innate behaviour pattern, marginally modifiable by cultural factors (like whether to bath daily or just on Saturday nights), but essentially universal. Empiricists hotly dispute this; if bathing is innate, they say, then why the struggle to get certain children to engage in the activity?

Bathing is a problematic area, involving complex cognitive and behavioural patterns. For example: one of the first behaviours involved in the process of Having a Bath is that of causing the necessary Fluid to accumulate in the Bath-tub. Here, we can distinguish two explicit and mutually exclusive behavioural strategies. The first, which we shall refer to as Water Before Self (WBS), consists of accumulating water in the bathtub without the simultaneous presence of the individual. WBS individuals show wide variation in their proximity to the Bath-tub. Some remain very close to the water, occupying their time gazing pensively at the filling bath. (The hypothesis has been put forward that these individuals are, in fact, highly anxious about the potential spontaneous generation of supernatural beings in their absence. Having heard of Venus arising from the foam, they are taking good steps to be around should it happen again.) Other WBS individuals, by contrast, remove themselves totally from the vicinity (often to go and make a cup of coffee for in-bath ingestion). It has been proposed (Tryitt & Dairing, 1982) that these are stimulus-seeking individuals, introverted and of low sociability, and that the act of removing oneself from the tub is a way of reducing the anxiety attached to being in the water. WBS individuals manage to avoid, almost completely, a dilemma which is highly problematic for WBS subjects. Specifically, this dilemma consists of the decision as to whether to Leap Into the Bath from a Great Height, or whether, instead to Step Sedately over the side and slide into the water. In interview, our subjects indicated clearly that the former strategy is the more enjoyable strategy, yet empirical investigations imply that it is actually quite rare. A possible explanation for this puzzling anomaly may be found in the negative valency ascribed to subsequent removal of superfluous Fluid from the vicinity of the Bath-tub, as an inhibiting variable in the Leaping strategy. Interesting issues are raised by this observation, in terms of the validity of operant conditioning as a universal behaviour determinant. Superficially, after all, the individual should adopt the more rewarding strategy. Clearly further research is needed here.

While it appears that the majority of individuals do adopt the use of Soap, it seems that there is wide variation in the utilisation of Artificial Aids - sponges, flannels, etc. Some subjects appear to use a wide range of Implements such as loofahs, nailbrushes, facecloths etc.; while others appear to use none whatsoever, or very few. Splashe and Scrubblitt (1988) have suggested that implement users are, in fact, highly extroverted individuals with a very low boredom threshold. By thus varying the stimulus, they are able to reduce the time spent on any one individual activity and so remain in the bath for a longer period of time. (Time spent bathing is the subject of one of our current research projects. We hope to be able to report on it in the near future.)

Another decision concerns the crucial question: Hairwashing or Not? Our research produced some remarkable examples of set and rigorously defended attitudes here. Non-Hair-Washers (NHWs) tended to adopt what can loosely be grouped as "hygiene reasons", with a small minority who produced justifications in terms of the plumbing arrangements of the system. NHWs also showed an intense emotional reaction to the idea. By contrast, the Hair-Washers (HWs) justified their behaviour almost entirely in terms of convenience; but showed little aversion to the NHW activities. It is interesting that remarkably few individuals appear to engage in Tooth-Cleaning Behaviour while bathing, whether they are HWs or not.

A final decision concerns the removal of Self from the Bath. The majority tend here to remove the Self first, and the Bath-Water later, but a significant number of individuals appear to utilise this procedure in reverse. Interview responses described laundry-reduction as a positive consequence of drying through evaporation for the latter group, but behavioural observations suggest an inertia variable, which did not emerge from the interviews.

Our research is continuing, and we hope soon to be able to report on some exciting new developments in this field.

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Note: This paper is adapted from an article which first appeared in the Association for the Teaching of Psychology's Handbook for Psychology Students, 1982.

Nicky Hayes is a Chartered Psychologist, teacher and examiner.
Handbook of the Psychophysiology of Human Eating
Edited by R. SHEPHERD, AFRC Institute of Food Research, Norwich, UK
Eating is an important part of the lives of all humans – it is necessary to sustain life and is closely bound up with cultural and social function – this book looks at the psychology of eating and in so doing brings together work from many branches of psychology. The distinguished contributors represent a broad spectrum of approaches to eating: from the study of neural processes affecting food intake, through the experimental manipulation of taste and other sensory properties of food, developmental processes and influences, the influence of outliers or behaviour and health, psychosomatic states, clinical and research studies of weight control, to socio-cultural influences on food characteristics and nutritional behaviour.

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