politically-dependent factors such as funding, regulations, accountability, and training policies i.e. an appropriate infrastructure.

The third major theme addresses the training and professional development of early childhood teachers for an increasingly complex role. The issues debated throughout this section are familiar also to British audiences, for example, the return to more traditional approaches in teacher training, the packaging and standardisation of curricula, and the dilemmas of dichotomising care and education in the early years. A particularly illuminating chapter in relation to the latter, written by Judith Burton and Michael Lyons, merits attention from early years practitioners here. It concerns the professionalisation in Australian day care. It examines a recent matter before the industrial relations tribunal in the state of Queensland. The tribunal dealt with claims that early childhood teachers working in day care should receive parity of pay with teachers in other settings. The matter was decided on whether teachers employed in day care centres were actually teaching and it was decided that most were not – these practitioners were portrayed as only providing developmental programmes (as opposed to educational programmes) which, it was assumed, required less skill and thus deserved less pay. The case itself illustrates how professional status is a complex web of an occupation’s knowledge base, state sponsorship, workplace, and industrial issues.

The final major theme explores how the teaching and learning that take place in classrooms reflect broader social goals and mores. Chapters by Trevor Cairney and Bridie Raban on different aspects of literacy, by Alison Elliott on Science and Technology, and by Isabel Dockey on different philosophical perspectives of kindergarten curriculum all testify to the importance of closely connecting home, school, culture and the child’s own world needs. The editorial concludes that early childhood professionals are not particularly valued in current times, their knowledge base, practices and contributions often seen as soft and inexpert at a time that is preoccupied with cost benefit analyses, fiscal restraint and measurable outcomes. Yet, the book demonstrates that childhood professionals are not merely important players but the most important players in children’s development. Achieving coherence across the chapters of an edited volume is never easy and the scale of this particular project must have made the task particularly difficult. However, it is to the credit of the editors and the contributors that the volume achieves coherence and focus. In the words of Ivan Snock in the Foreword, the papers reveal the enormous influence that politics, self-interest, and ideology have had on every sphere of education including early childhood education. The book has lessons for British audiences and should be read by researchers and professionals involved with early childhood care and education.

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The main aim of this book, based partly upon the author’s own research, is to question the received wisdom of the 1990s that educational participation and performance have become increasingly polarised as a result of market reforms pursued during that period; the author seeks to dispove and even reverse some of these views.

In the first chapter the author sets his scene by quoting 'evidence' from various sources about how English and Welsh students perform poorly on international comparisons and how performance has deteriorated over time. He then claims that existing interpretations of data are flawed on the basis of three alternative interpretations. The first involves essentially a presentation of numerical comparisons of percentages on a multiplicative rather than arithmetic basis, what he calls 'proportionate analysis'. He seems totally unaware that debates about how to present such comparisons have a long history and include a much wider discussion than the superficial justification given in this book, and there is no universally best method. The second point he makes is that comparisons, especially those over time, must take into account any underlying population changes, sensible but hardly new. The third is that raw comparisons of performance are misleading and that 'value added' analyses are needed. Again, this is hardly new. The rest of the book applies these interpretations to data, and I shall consider each one in turn and whether Gorard’s reanalysis does take the debate forward.

Social segregation

Chapters 2 & 3 address the issue of whether social segregation between schools has increased. Gorard rightly points out the limitations of generalising from small-scale unrepresentative studies and introduces data that include information on social background such as free school meals entitlement. Interestingly Gorard never seems to address the much more important segregation issue with which many have been concerned, namely the issue of increasing achievement segregation. Irrespective of social background, the ability of schools to choose children can be expected to lead to increasing differences in achievement, given the emphasis on producing 'good' league table results. The evidence from school effectiveness research is that initial achievement is a far better predictor of final performance than social background, so that a 'rational' school would wish to select on that basis, even resisting efforts of enter ‘desirable’ schools by the socially advantaged who cannot also demonstrate high achievement. If such mechanisms are at work they may in fact lead to less social segregation, but that would not necessarily make them desirable. What, then, of his analyses?

The data used in these analyses come from administrative school level records and provide information such as the proportion eligible for free meals (a crude measure of social disadvantage), ethnic minorities and special educational needs, supplemented by area level social data. The real problem with this analysis, however, is a technical one. Gorard defines a 'segmentation index' as follows.

Within a given area, such as an LEA, if there is no underlying difference between schools in the proportion of disadvantaged children, then the expected number of disadvantaged pupils in a school is simply obtained by dividing the overall proportion for the area to the number of children in the school. The difference between the expected and observed numbers in each school in then calculated, the absolute value taken and then these are added together across the area and divided by (twice) the total number of disadvantaged pupils in the area. This index is used to compare LEAs and, crucially, to make comparisons over time; Gorard finds that across England between 1989 and 1997 there is actually a decrease in the value of this index and this is used to argue against the thesis of increasing social segregation. Unfortunately, the value of this index is a function of the size of school, and without controlling for size the index cannot be interpreted as measuring changes in segregation. This dependence on size becomes negligible as the underlying segregation increases, but in the case where the true segregation is
Chapter 5 reverts to the 'proportionate analysis' comparisons over time and seeks to reverse existing interpretations, claiming that in fact there is convergence between schools in terms of examination results. For the reasons explained earlier all of this is debatable and it is difficult to rely upon such analyses. An appropriate analysis of 'convergence' would require, at the very least, longitudinal 'value added' data on cohorts of pupils in schools.

Chapter 7 suffers from the same drawbacks as previous chapters in using the segregation ratio, failing to take account of prior achievement when comparing schools and carrying out an aggregate level analysis using schools as units. Chapter 8 uses 'proportionate analyses' to revise conclusions of others. Here, as elsewhere, however, Gorard does make some useful criticisms of other people's simplistic interpretations. In Chapter 9 Gorard makes the important point in comparing boys and girls over time, that entry changes need to be taken into account. He again uses a 'proportionate analysis' and simply claims that this is superior to other methods of presentation and on this basis comes to different conclusions from other researchers.

In his final Chapter Gorard makes several claims on the basis of his analyses, that social segregation is decreasing, that international differences are exaggerated, that there are no clear differences between types or sectors of schooling and that differences between different types of pupils are decreasing over time. Unfortunately, none of these conclusions can be relied upon to follow from Gorard's analyses.

Interestingly, he makes an attack on 'qualitative' researchers who are dismissive of quantitative research, and I have some sympathy with that. But he then goes on to dismiss 'complex methods of analysis' in favour of his own 'middle way'. The trouble is that Gorard's analyses are over-simple, use insecure statistical techniques and actually demonstrate the real dangers of over-simplification. The processes being studied are genuinely complex and only by developing techniques that seek to match that level of complexity can we hope to advance quantitative contributions to knowledge (Goldstein, 1998). Far from providing a step in the right direction this book provides a sad example of how not to approach the analysis of complex educational data.

REFERENCE


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In England, transitions post-16, or possibly post-14, are high on the government agenda. They are seen as pivotal in policies directed at social inclusion, the raising of educational standards, and economic competitiveness. A similar prominence is also given, at least rhetorically, to the need for evidence-based policy and practice. One might assume, therefore, that this book would be essential reading for ministers, senior civil servants and their myriad advisors.

For the authors have made an admirable attempt to balance a wide range of