Possibilities for mathematics education? Aphoristic fragments from the past

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ABSTRACT: Our contribution to this special issue is not intended to offer a theoretical argument in conversation with the papers which form The Disorder on Mathematics Education (Straehler-Pohl, Bohlmann & Pais 2017). It is informed by much of the thinking contained therein and driven by a similar concern with the institutionalisation (and therefore the inevitable co-option and colonisation) of the socio-political dimensions of academic research in mathematics education. However, it is intended to sit alongside as a disorderly and comparatively uninvited guest at the conversation. Rather than advocating a specific set of approaches to the teaching and learning of mathematics for social justice, we are striving after a disorderliness of format to allow the advancement of a (somewhat utopian) imagination and hope, to unsettle ourselves and others and to offer the occasional, penumbrian glimpse of ‘the speculative could’ (Straehler-Pohl, Pais & Bohlmann 2017, p. 3). We present research fragments collected as part of an activist project without introduction or comment; however, alongside these, we offer more conventional text on neo-liberalism, the need to historicise the present, aphoristic thinking and the need for "somewhere" to be.

Keywords: neo-liberalism, historicise, mathematics education, activism

I Introduction and context

In socio-political mathematics education research, it is everywhere recognised that dominant discourses hold sway largely through creating the sense that everything they propose is natural, common-sensical and could not be otherwise (Gramsci 1971). We live in a world dominated by neo-liberal thinking - in England, over the last three decades, neo-liberalism...
has been particularly successful in accomplishing this hegemony. As Perry Anderson noted more than a decade ago 'there are no longer any significant oppositions - that is, systemic rival outlooks - within the thought-world of the West' (2000, p. 13).

The education system in England is now drenched in neo-liberalism (Llewellyn 2017), almost from top to bottom (the education of three to four year-olds still has some small immunity): schooling has become a space where thinking other than about "standards" and their auditing has become almost unthinkable (about which more below); more recently higher education research has become subjected to an almost mindless adherence to "REFable" grade measures of originality, significance and rigour, terms which have begun to be bleached of meaning; and now higher education teaching is to be subjected to a teaching excellence framework (TEF) based on measures of retention, student satisfaction and graduate employment with the Higher Education Academy asking "Are you TEF ready?" (https://www.heacademy.ac.uk/services/consultancy/are-you-tef-ready-teaching-excellence-framework) and "selling its wares" to universities. The valorisation of criteria and their disciplinary functioning 'reflects a desire to contain freedom, limit possibilities, and resist change' (Bochner 2000, p. 266).

What a wonderful time we had, we really did. Didn't we enjoy ourselves ... Nobody thinks about making teachers' jobs enjoyable these days. (group conversation, 2016)

We will continue indefinitely to praise, to swear and to curse in every language we know. (Berger 2016c, pp. 142-143)

[I was at] some kind of weekend editing group ... There was this dreadful thing about how to play fraction dominoes, which was some instructions that went on for about a page, and I was trying to rewrite this. I spent about an hour and a half doing it and eventually it came up [for discussion] and [a fellow Smiler] picked it up, fell about laughing and said, 'Look at that!' scrunched it up and threw it in the bin and went on to the next one! ... this idea that Smile was kind of nice and liberal – it was bloody hard. People were really tough-minded in their beliefs ... You really had to be able to fight your corner and if you couldn’t it was tough. (group conversation, 2016)

2 The Research Excellence Framework which audits and ranks research in the UK (http://www.ref.ac.uk/)
None of the "orderings" - potential rival systemic outlooks - available within socio-politically informed mathematics education research has presented, outside its own limited context, a significant challenge to this dominant discourse. Moreover, even within mathematics education research intended to critique existing patterns of disadvantage and to argue for a more socially just mathematics education, mathematics itself, and therefore the learning of the subject, is presented most commonly as an 'untrammelled good' (Ernest 2016, p. 2) with its promotion and the learning of it seen as leading solely to beneficial outcomes. We include much of our own writing in this critique.

No wonder, then, a call for disorder (on the page, yes, but what is our stand on in the street, in the academy, in the mathematics classroom?). We recognise the existence of social movements that, in the moment, may appear to have a profound effect on the status quo. However, we also recognise their reversal and / or apparent erasure, of their having 'somehow gone down the wrong trouser leg of time' (Penny 2016, p. 18). One explanation offered is that such movements are not grounded in order, either symbolic or organisationally; but this seems to us premature. Perhaps it is better to think of such movements as elements in a currently absurd classification which breaks up all the ordered surfaces and all the planes with which we are accustomed to tame the wild profusion of existing things ... [and through which] we are enabled to think meanings that were impossible to think beforehand (Straehler-Pohl, Bohlmann & Pais, 2017, p. 5)
We accept that inequity and exclusion in mathematics education in capitalist societies is consubstantial with the acts of teaching and learning mathematics themselves (Pais 2017); however, in the context of this special edition, pace the urgent need for disordering, we hold the perhaps heretical position of also seeking (post disorder) an (unstable and temporary) new ordering to support us in the struggle for a more just, democratic and socialist mathematics education, to enable us to act in the world. And, given the title of this journal, we perhaps also need to declare our residual enthusiasm for mathematics itself despite the 'collateral damage' (Ernest 2016, p. 1). But these two - the search for a more just mathematics education and finding pleasure in mathematics - always already seem to become "ordering" temptations for us, temptations we wish to resist.

[It is important here, in passing, to notice just how pernicious this collateral damage is and to bring back into view what has been 'put below the horizon' (Skovsmose 2016, p. 11):

I have a very strong memory of sitting with around 20 other teachers at a Working Weekend (perhaps Friday 9th April 1982) listening in shocked silence to the news outlining the sending of the task force to the Falklands. The practical Smile response was to edit a worksheet on bearings (0777 Sub Smash) so that the content stayed the same but without torpedoing submarines as a context. Rather prescient given the sinking of the Belgrano a few weeks later ... Thatcher's anti-racist mathematics comments at the Conservative Party Conference (9th October 1987) were part of a longer rant about education:

And in the inner cities—where youngsters must have a decent education if they are to have a better future—that opportunity is all too often snatched from them by hard left education authorities and extremist teachers. And children who need to be able to count and multiply are learning anti-racist mathematics—whatever that may be. Children who need to be able to express themselves in clear English are being taught political slogans. Children who need to be taught to respect traditional moral values are being taught that they have an inalienable right to be gay.

(email correspondence, 2016)

Stories are one way of sharing the belief that justice is immanent. (Berger 2016a, p. 96)
... how incredibly autonomous we were ... [teachers now] have less autonomy but they haven't noticed because it's drip, drip, drip like when you put a crab into water and heat it up gradually and eventually they boil to death. (group conversation, 2016)

... we learnt so much from each other. We had so much discussion. We learnt more mathematics, we learnt more pedagogy, we learnt so much. (group conversation, 2016)

mathematics education, and mathematics itself, do significant harm in the world. Some ways in which this happens are:

- Mathematics education leaves many learners feeling inadequate, humiliated and ashamed (Bibby 2002).
- It is used, pre-eminently, to order and rank young people, to operate as a critical filter, with such ordering and ranking then justifying and legitimating social stratifications and concomitant allocations of advantage and disadvantage. Social class has, universally in Anglophone countries, a profound influence on one's place in this mathematics hierarchy and thus the stratifications replicate the existing unequal order (Wiliam & Bartholomew 2004).
- Many applications of mathematics contribute significantly to social harm. An example is provided by the sophistication of the weaponry owned by the wealthy and deployed through advanced computer software against the poor, now creating almost certainly the greatest imbalance in history between combatants (Berger 2016a).
• Other applications bring dehumanised thinking to social and ethical problems fostering 'ethics-free governance' (Ernest 2016, p. 14). Such use of mathematics valorises instrumental thinking with a focus on technical means rather than ethical ends and separated rather than connected knowing. Resulting policy is seen as 'unquestionable practical reality, a necessary evil' (p. 8) which no longer has the power to shock or outrage: 'the mathematical issues become located within the horizon, and the context of the calculations becomes lowered beneath the horizon' (Skovsmose 2016, p. 12).

• Mathematical thinking is constructed as dealing in certainties; results are necessary, objective and neutral and are found by the operation of detached rules. Exposure to such reasoning without meaning provides 'a training in ethics-free thought' (Ernest 2016, p. 6).

(Many of the arguments touched on here are developed in some detail in Ernest, 2016 and Skovsmose 2016.)

II Our contribution

Our contribution to this special issue is not intended to offer a theoretical argument in conversation with the papers which form The Disorder on Mathematics Education (Straehler-Pohl, Bohlmann & Pais 2017). It is informed by much of the thinking contained therein and driven by a similar concern with the institutionalisation (and therefore, to some extent, the inevitable co-option and colonisation) of the socio-political dimensions of academic research.

I really don’t care, I don’t think, what anybody knows at the end. What I care about is that they have learnt that the more you learn about things, the more exciting the world is, so they’ll want to go on learning more. (group conversation, 2016)

We have to reject the new tyranny's discourse. Its terms are crap. (Berger 2016a, p. 41)
in mathematics education: the conventional products of research have become commodities with an exchange value, 'alienated objects offered cheaply for sale' (Fischer 1996, p. 68). Our contribution is intended to sit alongside as a disorderly and comparatively uninvited guest at the conversation. We want our contribution to make the reader uncomfortable, perhaps even a little embarrassed sometimes by our excesses, by presenting research fragments without textual commentary.

As well as writing research in ingrained ways, we also read research in ingrained ways that limit our thinking. Here, simply reading down the page as we are trained to do, the conventional text is interrupted. These interruptions speak over it: 'seeing comes before words' (Berger 1972, p. 7). But, of course, the images do not unproblematically speak for themselves. The meanings of the images are framed by and changed as a result of their positioning - what lies beside? what comes immediately after? (Berger 1972, p. 29). They constitute a representation, a construction, and are not and could not be the "original" of the phenomena being reported (Passerini 2000).

The forms of these fragments, collected as part of an intended activist project (https://smilemaths.wordpress.com/), are visual images, stories, scraps of transcripts, aphorisms, occasional questions ... (We have written about the project itself elsewhere:...
We are striving after a disorderliness of format to allow the advancement of a (somewhat utopian) imagination and hope, to unsettle ourselves and others and to offer the occasional, penumbrian glimpse of 'the speculative could' (Straehler-Pohl, Pais & Bohlmann 2017, p. 3) rather than to advocate a specific set of approaches to the teaching and learning of mathematics. As will become apparent in our discussion below, it is intended that these images 'confer a new kind of power [that helps us to] understand the history of which we can become the active agents' (Berger 1972, p. 33).

Alongside these research fragments, however, there is a more conventional text (of which this sentence is a part) which is concerned with a number of themes and it is to these that we now turn.

**III Education in England, neo-liberal thinking and the need to historicise the present**

In England, the break with the post-war consensus and the beginnings of the neo-liberal project in education can be traced back to the Black Papers in Education published during the late sixties and throughout the seventies (Gillard 2011.) With the appointment of one of the Black Papers' authors as Secretary of State for Education in Margaret Thatcher's first government, the 'brutal new capitalism' which had been in the offing (Rowbotham 2000,

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[We believed] we were moving in the same direction as history. (Rowbotham 2000, p. 191)

The flip side of autonomy is that racist and homophobic teachers could do what they liked. (comment at a seminar, 2016)

What we were teaching, I think, before anything else, was how to live in a society peaceably and productively ... (group conversation, 2016)

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3 We have previously rehearsed arguments similar to those contained in the first part of this section in Povey, Adams & Everley 2016 and in the second part in Povey & Adams 2017.
I remember two really big arguments I had, one of which I lost ... which really upset me at the time ... a very early card ... when it got rewritten it was written as an Asian family ... I said why don’t you use the opportunity to have a gay couple? So you just have a couple, nobody’s there, nobody says anything, but they’re there. I was told you absolutely can’t do it because it’s an Asian family and it will upset the Asians and that was it.

I was devastated because my family had a gay parent, so for me that was my family not being in *Smile* and not being in classrooms, and of course my family was never in classrooms. I was still aware that there were these children in London in classrooms whose parents were gay and nobody knew and it was the one place you could put it in, but the important thing at the time was we have to include the Asians ... but that’s how people thought then, so there were times when actually it wasn’t as right-on liberal as it might have been, because there were lines that were drawn ... (group conversation, 2016)

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p. 189) began to be enacted. As Sheila Rowbotham has noted, left-leaning educationalists were unprepared:

None of us noticed a be-whiskered bad fairy glowering at us in the wings. Rhodes Boyson was about to make an entrance, flapping his Black Paper on education and fulminating against anarchy (Rowbotham, 2000, p. 167).

Education became subject to an 'epidemic of reform' (Ball 2003, p. 215) with government interventions in the details of curricula and the introduction of a testing and inspection regime and accompanying performance league tables with high stakes consequences for teachers and schools. The 'audit ideology' (Groundwater-Smith & Mockler, 2009, p. 5) has been a key policy instrument in the neo-liberal project, recasting education as a consumer good rather than as a public service (Macpherson, Robertson & Walford 2014).

Stephen Ball (2003) has drawn attention to three interrelated policy technologies which have been at play throughout this period: the market, managerialism and performativity. Performativity, in particular, affects every aspect of teachers' working lives (Povey, Adams & Everley 2016):
it is impossible to over-estimate the significance of this in the life of the school, as a complex of surveillance, monitoring, tracking, coordinating, reporting, targeting, motivating. (Ball et al. 2012, p. 525)

Teachers' autonomy is eroded and their individual and collective professional and personal identities are under pressure (Day & Smethem 2009). It is not too strong to say that teachers are in the grip of the terrors of performativity and that there is a struggle over the teacher's soul (Ball 2003). A Foucauldian regime of truth normalises the ubiquitous use of numerical data (poorly understood) to monitor and judge "performance" by students, teachers and schools (Hall & Noyes 2009), making everything subject to calculation through 'the micro-disciplinary techniques of hierarchical observation, normalising judgements and examinations' (p. 851).

The same regime of truth disciplines teachers by demanding meticulous attention to trifling minutiae, 'a political anatomy of detail' (Foucault 1979, p. 139). The teacher as neo-liberal subject, through the Foucauldian technology of the self, is expected to 'carefully fabricate' (Foucault 1979, p. 217) herself constantly in conformity with neo-liberal demands (Lemke 2001, p. 203-4), to reform and regulate her subjectivity through micro self-surveillance, working intensively on the self and coming to perform an individualised, enterprising identity (Ball 2003). Insecurity is rife: it becomes necessary 'to compete permanently with oneself' in order to stay in the job' (Montecino & Valero, 2017, p. 150). In this world where what counts (and is counted) is what we perform rather than who we are, '[w]e are in danger of becoming transparent but empty, unrecognisable to ourselves' (Ball 2013, p. 138).
... it is not only animal and plant species which are being destroyed ..., but set after set of our human priorities. The latter are systematically sprayed, not with pesticides, but with ethicides - agents that kill ethics and therefore any notion of history and justice. Particularly targeted are those of our priorities which have evolved from the human need for sharing, bequeathing, consoling, mourning and hoping ... (Berger 2016a, p. 83)

... if I put my hand on my heart I'd say [Smile] was a sort of idealistic failure in the end (group conversation, 2016)

How is this hegemony built and sustained? We recognise that neo-liberal discourse in education has colonised language to such an extent that words have lost their meaning: all students are to be above average and all teachers are to be outstanding. It appears that mathematics for all has experienced a similar fate (Pais 2017, p. 55). We are left with 'the rubble of words' (Berger 2016a, p. 7): it becomes almost impossible to think outside neo-liberalism's world view and, therefore, to think how things could be otherwise (Llewellyn 2017).

Equally, but perhaps not recognised so clearly, an absence of any historical sense militates against seeing that the world could be different. We argue that it is part of the neo-liberal project to cut us adrift from our past and to de-historicise our lived experience of the present, generating a sense of 'historic loneliness' (Berger 2016b, p. 17): 'any sense of history, linking past and future, has been marginalised if not eliminated' (p. 17). History's traces are unseen, ignored and forgotten (Passerini 2000, p. 135):

Experience is being wiped out. The horizons of past and future are being blurred. We are being conditioned to live an endless and uncertain present, reduced to being citizens in a state of forgetfulness. (Berger 2016c, pp. 139-140)
This silencing of the past contributes to making unthinkable a different future. Thus our interest in 'blowing the dust off history' (http://on-the-record.org.uk/). History can enable us to glimpse that current hegemonic common-sense is contingent and therefore fragile (Ball et al. 2012, p. 514) and designed to serve the interests of some people and not of others. In other words, 'our understanding of the past has strategic, political and ethical consequences' (Hodgkin & Radstone 2003, p. 1). It follows that our backward looks are not backward-looking but forward-looking (Povey & Adams 2017, p. 808); our intention in our activist project is that our use of historical material is 'present-minded' (Samuel 1980, p. 168).

A further feature of the radical history tradition (Samuel 1980) on which we are drawing to inform our thinking emphasises the significance of the everyday to counter the cry of the performative regime that 'experience is nothing, productivity is everything' (Ball 2013, p. 136). Radical history tries to capture 'the texture of daily life in the past' (Samuel 1980, p. 172): '[r]evolutions are about little things. Little things which happen to you all the time, every day, wherever you go, all your life' (Rowbotham, 1969. np, quoted in Rowbotham, 2000). Our aphoristic data and research fragments reflect this everydayness and are intended to make a contribution to how we

construct ourselves for ourselves as researchers ... to seriously rethink our ways of being in the world as mathematics educators, and ... change our practices of thinking, asking, working, exploring, fearing, hoping, pondering, and so on (Appelbaum 2017, p. 277).

In the next section we elaborate further on the possible role of the aphorism.

IV Aphoristic fragments

We began using aphoristic fragments, bits and pieces, scraps, simply as an experimental way of working with our research material. Our project is an activist one and we are ourselves

... they have succeeded in burying and covering up the imaginative spaces ... (Berger 2016a, p 83)

... the politics, the enthusiasm, the arguments, the craziness ... (group conversation, 2016
[On a recent visit to a school in Wiltshire] all the classes in the school ... had posters up at the back, and they had to be put in the back of the room – they were for the teachers, not for the children. The one that I liked best was *Are All Your Children Achieving Beyond Their Targets?* So they could see that every time they looked round. Is every child achieving beyond their targets? Where did this come from? Senior management. This doesn’t make any sense, it’s insane. If they’re all achieving beyond their targets, the targets were wrong. This is madness, absolute madness. (group conversation, 2016)

*Splash* (Smile teachers’ newsletter), June 1981

deployed involved with the "data", both through our personal histories and our current emotional engagement. Enchantment presented a way of thinking about how we might work with the material, a way which lies outside our habituated responses as researchers:

Approaching empirical materials in a mood of enchantment involves a self-consciously affective engagement rather than aspiring to the objective stance often associated with analysis ... it allows recognition of the excessive, the ebullient, the vivid and the felt (Burnett & Merchant 2016, p. 30).

The aphoristic fragments carried some such potency.

To understand the role of the aphoristic fragment better, we turned to the work of Gary Morson (2003), immediately drawn to the title: *The aphorism: fragments from the breakdown of reason.* A fragment is essentially incomplete. Morson contrasts aphorisms with dicta. Dicta see no mystery and come with the feeling that a dark epoch is over. Their rhetoric tends to totality (there is no sense of "on the whole and for the most part"), certainty and absolute clarity with an eschewal of metaphoric thinking. Dicta typically present their truths as axiomatic and are intolerant of exceptions, paradox and doubt. The dictum means what it says and demands to be heard. It is isolated from history and represents a conclusion (pp. 416-419).
In contrast, the aphorism is a beginning and speaks of the necessary incompleteness of our knowledge of what is most important. It does not say, it shows and gestures. It is marked by provisionality and is never finished (pp. 422-427). In their very brevity, aphorisms are capable of many interpretations (p. 412). Whether or not something is an aphorism is not to do with its essence; rather it is to do with how it is read. We try out reading something as an aphorism and 'see what happens' (p. 422); and '[t]o read a short expression as an aphorism is to read it as incompatible with the perspective of the dictum' (p. 411).

Where we depart from Morson is with respect to linking dicta with utopia (p. 418). We intend our use of history to be utopian,

not in the sense of a ready-made scheme projected onto the real world, but rather as a criticism of existing conditions springing from an intuition of changes potentially immanent in the present (Passerini 2000, p. 138).

Morson notes that aphorisms 'gesture beyond themselves' (p. 423); they point not towards a goal but to a horizon that continually recedes as we approach it. This seems to us to be a defining characteristic of utopia: 'we feel that even though we do not reach the goal, the quest

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**Education Secretary berates 'the new enemies of promise' for opposing his plans**

[These] Enemies Of Promise ... a set of politically motivated individuals who have been actively trying to prevent millions of our poorest children getting the education they need ... academics who have helped run the university departments of education responsible for developing curricula and teacher training courses. You would expect such people to value learning, revere knowledge and dedicate themselves to fighting ignorance. Sadly, they seem more interested in valuing Marxism, revering jargon and fighting excellence ...

What planet are these people on? A Red Planet, if their published work is anything to go by ... [They represent] The Blob – the network of educational gurus in and around our universities ... in thrall to Sixties ideologies ... (Gove 2013)
... this was a boy ... who said I don’t like maths. I’m artistic, I’m arty. I don’t like maths. He used to come back after school in Year 8 and he produced Maths Mag. This was all his work and they were little maths problems, sequencing problems and he’d do the diagrams and this, that and the other. I don’t know, I suppose it would be a stencil on a Banda machine or something, I would run it off and it would go out to the students. This was something again with the flexibility. There was nothing to stop you ... (group conversation, 2016)

is not futile because at each step we acquire greater wisdom' (p. 413). Ruth Potts (2017) quotes Fernando Birri:

Utopia is on the horizon. Every step I take towards her, she takes a step back and the horizon runs ten steps further away. So what purpose does Utopia serve? Well, it serves the purpose of making us move forward (p. 16).

Neo-liberalism seeks not only to discipline the self but also to discipline our imaginations; against this, utopian imagining acts as a catalyst for change. The very provisionality and gesturing of the aphorism can serve to counter the myopia caused by neo-liberalism as it obscures the vision of alternative possible futures.

V Concluding remarks: a meeting place

We have written above about 'historic loneliness' (Berger 2016b, p. 17). In the same article, Berger has invoked in addition the metaphor of no-fixed-abode or homelessness to capture this isolation. Elsewhere he writes:

People everywhere - under very different conditions - are asking themselves - where are we? The question is historical not geographical. What are we living through? Where are we being taken? What have we lost? How to continue without a plausible vision of the future? … To the anguished question Where are we? the experts murmur: Nowhere! (2016a, p. 36).
As Anna Llewellyn points out, it is questions like this that 'allow us to examine how we are constituted and what we think we are' (2017, p. 157).

Our response has been to try to find a 'meeting place' (Berger 2016b, p. 17), a "somewhere", within which it might be possible to understand, interrogate and oppose dominant discourses. We have argued that the meaning we make of the past is also the meaning we make of the present and that such subjective and localised making of meaning can be agentic:

an understanding of subjective experience and everyday social relationships can be used to pose major questions in politics and theory, and to transform our understanding of some of the leading phenomena of our time (Samuel 1980, pp. 173-174).

However, reweaving the threads of significance between the past, present and future is a delicate and difficult task (Anderson 2000, pp. 13-14); and, we add, a necessarily disorderly one. We have written about our activist project more conventionally elsewhere (see above) and will continue to do so in an attempt to gain support for further action; but, if it is to make any difference, a 'genuine transformative passion' is required (Bewes 2002, p.172) and to show this as researchers is to function not as we are supposed to do (Straehler-Pohl, Pais & Bohlmann 2017, p. 13) but otherwise. Our tools are imperfect and inevitably format and deform but nevertheless they are worth employing: 'all tools are defective, though not useless, so we must try many and see what results' (Morson 2003, p. 421).

As noted previously, our activist project has generated a considerable volume of "data" and has led to the creation of a pilot website (https://smilemaths.wordpress.com/) which contains many of the fragments attached here: but as we have become concerned to situate our project better within a theoretical landscape we have, at a visceral level, experienced the "ordering" of our thoughts. Thus our attraction to attempting 'more experimental and radical forms of presenting' our research as invited for this special issue.

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