THE NEMP EXPERIENCE

Professional Development of Teachers through the National Education Monitoring Project

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Abstract

A key element of the National Education Monitoring Project in New Zealand is the employment of specially trained, practising teachers to work intensively with 60 children over a five week period in at least five different schools. This study attempts to document the nature and level of professional development gained by these teachers through the use of weekly diaries, a series of questionnaires, and interviews with 'case study' teachers. The data revealed that the professional development of the 'NEMP experience' renders benefits which are numerous, broad and multi-faceted. The benefits range from personal and professional, specific and general, immediate and longer-term, related to assessment and beyond.

In its broadest sense professional development (PD) has been characterised as 'the total set of formal and informal learning experiences that teachers accumulate throughout their career until they leave the profession' (Clement and Staessens, in Kieviet & Vandenberghe, 1993, p.133). It is 'a life line for quality work environments and satisfying careers' (Lovett 1995, p. 21).

The nature of PD has been undergoing a 'paradigm shift' (Sparks, 1995) during the past 20 years from models which use 'top-down' strategies in which teachers take a relatively passive role in being exposed to new ideas, or trained to use new practices; to models in which teachers take a more active role, their knowledge and experiences are valued and incorporated into the programme and PD is embedded within the context of their own classroom and school practices (Zeegers, 1994).

Indeed, the most effective PD is seen to be a cultural one within the profession (Kieviet and Vangenbergh, 1993; OECD, 1998; Staessens, 1993), and 'is built into the daily, weekly, and year-long job of teaching' (Renyi, 1998, p. 73). Important contributors to the effective implementation of PD in schools and classrooms include the organisational setting of the school (Tmants, Tillema and de Brabander (1993), support networks both within and across schools (Dewar and Bennie, 1996; Robertson, 1992; Scott and Murrow, 1995; Zeegers, 1994), opportunities for collaboration and sharing of ideas and experiences (McAlpine and Poskitt, 1996; Staessens, 1993), an environment conducive to change (Watters and Ginns, 1996) which encourages experimentation with new ideas (Zeegers, 1994), and the need for reflective practice' (Lovett, 1995; Watters and Ginns, 1995). 'Best practices' of PD have also been identified in the literature (for example, Louden, 1995; OECD, 1998; Sparks, 1995).
'The process of quantifying or describing the importance, value or impact of PD has proven to be difficult. Campbell (1997) argues that PD should have 'a direct and significant impact on teaching and learning methodology and, in turn, on educational outcomes for students' (p. 26). Burgess and Galloway, 1993, p. 169), however, acknowledge that 'though impact in the classroom is said to be the acid test...the paradox is that it can be very difficult to identify'. There are numerous, intangible aspects of the impact of PD which are equally difficult to quantify, such as, teachers' changes in confidence, attitudes, acquisition of higher order thinking skills, the clearer insights gained about, for example, how children learn.

Indeed, some participants in formal PD programmes find it hard to pinpoint the impact or the reasons for it (Stanley, 1995). For example, when Zeegers (1994) asked teachers to provide information about the impact of participating in the Australian Science/Technology project (Sci-Tec), she found that 'teachers were clearly able to articulate how their practice had changed, however, they were less specific when trying to identify particular aspects of the project which brought about these changes... [Sci-Tec]...provided different things for different people' (p.361-2).

An evaluation of the impact or benefits of PD is further complicated by the idiosyncratic/individual experience of the participants. Whether PD has an impact is not necessarily the result of good management, participants' motivation, or even a good course.'...highly motivated teachers can take back something valuable from an indifferent course, just as there are very stimulating courses which leave certain participants quite unmoved.' (ibid, p. 168.)

Despite the difficulty of documenting/measuring the effectiveness of PD, and given the definition of PD as a career-long accumulation of positive learning experiences, the contribution of a particular learning experience, such as that provided by the National Education Monitoring Project (NEMP), can be gauged through the perceptions of those who participated.

**Benefits of professional development**

The benefits of PD identified in the literature are multi-faceted. Some are direct and specific, some less obviously so. They range from personal to professional benefits, with spin-offs for participants, their classes, and sometimes their school or colleagues. Descriptions of such benefits vary from the abstract, such as 'challenging current practices' (Donn, 1995, p.46) to the specific, such as, gaining an in-depth understanding of the use of technology (fax machines, electronic networking, and audio-conferencing) (Stanley, 1995). Further, benefits may be accrued from the opportunities created in the learning experience, such as, interaction with other teachers and the sharing of ideas.

Among the direct, personal and professional benefits for those who participate in PD programmes are:

- the opportunity to discuss and share ideas with colleagues (for example, Bergeron, Wermuth and Hammar, 1997; Donn, 1995; Renyi, 1998; Stanley, 1995)
- which may lead to communication networks between schools being set up (Donn, 1995)
- improved teaching practices, particularly in providing more varied activities for children (Hollingsworth 1996; Renyi, 1998; Zeegers, 1994).
- an increased awareness of how children learn best and how to cater for this (Dewar and Bennie, 1996; Renyi, 1998; Zeegers, 1994).
- an increased awareness of the resources available (Dewar and Bennie, 1996; Renyi, 1998).
• developing a variety of skills and methods for teaching (Dewar and Bennie, 1996);
• Renyi, 1998; Zeegers, 1994).
• improved interpersonal skills (OECD, 1998; Zeegers, 1994). · promotion (Zeegers, 1994).
• 'a broadening of... perspectives...' (OECD, p.31).
• a 'more outward looking view' (Watters, and Ginns, 1996, p.65)
• increase in teachers’ confidence (Dewar and Bennie, 1996; Hollingsworth, 1996; Watters and Ginns, 1996; Renyi, 1998; Zeegers, 1994).
• 'a positive effect on teachers' levels of energy, which in turn affects their feelings of warmth towards students,...(and) leads to a decline in...perceptions of the work placed upon them.' (Hill, Holmes-Smith and Rowe in Campbell, 1997, 28).
• 'an effective antidote to the job dissatisfaction, stress and burnout that some teachers seem to experience' (Chapman and Lowther cited by Clement and Staessens, 1993, p.129).
• teachers feeling more in control over their job and work situations, improving their ability to adapt themselves to new demands and changing circumstances, and becoming 'more capable of accounting for their professional acts in an emotional and rational way' (Clement and Staessens, 1993, p.136).
• Gains in self esteem (Zeegers, 1994) and in self efficacy (Watters and Ginns, 1996).
• Opportunities for teachers to reflect, plan, organise, experiment, and practise new skills (Stanley, 198~; Zeegers, 1994).

There is less documented evidence in the literature of the benefits for others of the participants' PD:

• students experiencing a more harmonious learning environment with more varied activities and improved teaching practice (Campbell, 1997; Hollingsworth, 1996; NZ Ministry of Education, 1996).
• increased effectiveness of the teaching staff as a whole. (Campbell, 1997).
• Staessens (1993) describes teachers in a 'professional organisation' type of school, where PD is valued, as experiencing a 'strong sense of solidarity with their school and a willingness to invest in school activities' (p. 51).
• financial benefits - 'Countries that succeed in integrating professional learning into the day-to-day life of schools will face lower visible costs in terms of course fees and substitution of teachers absent for study' (OECD, 1998, p. 30).

The 'NEMP experience'

The main purposes of the National Education Monitoring Project (NEMP) in New Zealand are:

- to meet public accountability and information requirements by identifying and reporting patterns and trends in educational performance...[and]...to provide high quality, detailed information which policy makers, curriculum planners and educators can use to debate and review educational practices and resourcing. (Flockton and Crooks, 1998, p. 6)

To this end NEMP seeks to provide information at a 'system level' about how children are performing nationally as is done in many other western countries, such as, Canada, England and Wales, Australia and the United States.

The model of national monitoring in New Zealand is characterised by a number of important elements ~which make it distinctively different from other overseas models, such as, taking a light sample (approximately 3%) of children at two year levels, monitoring children's
achievement and attitudes across the curriculum in seven essential learning areas and eight essential skill areas, employing a range of approaches to assessment (one-to-one interviews, team, ‘hands on’ and independent assessment), and the extensive use of videoing to record student performance. A further important element of the model is the engagement of teachers in a variety of roles, such as assessment task development, membership of curriculum advisory panels and as markers of the assessment tasks. The role in which practising teachers have the most substantive role to play in NEMP is as a teacher administrator (TA). TAs are practising teachers who are engaged by NEMP for a period of six weeks: one week of intensive training on the NEMP assessment tasks to be administered, and five weeks working intensively with 60 children and staff in five or more different schools. Approximately 100 teachers participate each year.

The potential benefits to teachers of their involvement was anticipated at the outset of planning the model of national monitoring in New Zealand:

The use of practising teachers will mean a very powerful staff development benefit for the teachers and their schools: substantial training and experience in high quality assessment procedures, and the insights and new perspectives from working intensively with 60 children and the staff in five or more different school. We believe that this pool of teachers, growing annually, will be of great value to school and their students (Crooks and Flockton, 1993, p. 3)

Structural features of the NEMP experience

The NEMP experience involves a number of distinctive ‘design’ features which seek to optimise the PD that teachers gain. These include:

- An intensive training week during which teachers are briefed on their role as TAs, become familiar with the NEMP assessment tasks they are required to administer, and instructed in the use of video and other assessment and recording equipment. The primary aim of the training week is to ensure that TAs are trained to conduct the assessment of children with accuracy and in a standardised way.
- NEMP partnerships in which pairs of teachers work together within each school to assess twelve children over the five week period. This provides collegial support.
- Ongoing support from the NEMP Office is available at all times to deal with queries, equipment failures or replacements, or missing resources.
- Working closely with children using a variety of assessment approaches (one-to-one interviews, team, ‘hands on’ and independent). The maximum number of children a teacher works with in any assessment activity is four.
- Visiting different schools Each pair of teachers visits at least five schools (two or three small schools may collectively provide the number of children required for assessment and TAs will visit more than five schools).
- Time out from the classroom TAs are engaged for a six week period, during which they are released from their regular classroom teaching responsibilities.
- NEMP reports of results All schools in New Zealand are issued with several copies of the NEMP publications which report the assessment results annually.
- Exposure to new ideas of assessment NEMP uses a large number of diverse assessment tasks which are presented in a variety of approaches. They are designed to provide models of good and innovative assessment which teachers may use or adapt for use within their own classes/schools.
This paper addresses the NEMP experience of the TAs and is part of a larger evaluation which examines and documents the impact of the NEMP experience for teacher administrators and markers over a three year period.

Two specific questions are addressed in this paper:

- How important are the structural features of the NEMP experience for teachers' PD?
- What benefits do teachers gain personally and professionally from their NEMP experience?

Method

Participants

All teachers who have been involved as a TA between 1995 and 1997 were invited to participate in the evaluation. This was approximately 300 teachers. (While NEMP attempts to provide PD opportunities for a 'new' set of teachers each year, a small number have been engaged as a TA on more than one occasion.)

Data Collection

Data for the evaluation were collected from a variety of sources. Several self-report accounts of teachers' experiences were complemented with an in-depth investigation (visit and interview) with a number of individuals identified as 'case studies'. The evaluation design attempts to address the concern expressed in the literature about the reliability of self-reports (by teachers) of changed practice (Burgess and Galloway, in Burgess, Conner, Galloway, Morrison and Newton (1993)).

Weekly diaries

The TAs in 1997 were asked to complete a weekly diary for the five week period they were administering the assessment tasks in schools. Teachers were asked to make brief notes on any significant 'lessons' (insights, understandings or ideas) they learned which were, or would be, valuable to them as a teacher when they returned to their own school. The areas they were asked to consider these 'lessons' were in relation to NEMP assessment practices and procedures, NEMP resources and equipment; assessing curriculum objectives; school policy or practices; and interactions with teachers, children, parents and their NEMP colleagues. The 'lessons' might be in relation to assessment, but might also be in relation to other aspects of their work as a teacher or other responsibilities in their school. In addition teachers were asked to indicate/highlight the three most significant 'lessons'.

Questionnaires

Approximately four weeks after teachers had completed their contract with NEMP and they had returned to school, a questionnaire was distributed seeking their perceptions of the training week, the most significant aspects of their work as a TA, their confidence in conducting the NEMP requirements. particular ideas, practices or innovations they had been able to, or would like to see adopted in their class/school, and any opportunities they had had for sharing what they had learned with colleagues. In addition, they were asked to rate the importance of the structural aspects of the NEMP experience for their PD. Open-ended questions and likert-type questions were used to elicit responses.
At the beginning of the following school year, approximately four to five months after TAs’ contract with NEMP, teachers were asked to complete a second questionnaire. The intention of this questionnaire was to determine the extent to which teachers had had opportunities for implementing any 'lessons' they had learned in their classroom or school practice, factors which may have supported or hindered their attempts to try out new ideas and opportunities for sharing their ideas with colleagues. In addition they were asked to reflect on the benefits of their NEMP experience, and how the PD may have been made more effective.

Teachers were also asked to describe in some detail any particularly successful innovations they had implemented in their class/school. These were examined in detail to identify teachers for in-depth follow-up as 'case studies'.

At the same time, questionnaires were sent to all TAs who had been involved during 1995 and 1996.

Response rates

The numbers of teachers who responded to each data collection phase were as follows: (1997 TAs) - weekly diaries (53), questionnaire 1 (57), questionnaire 2 (61); (1995/6 TAs) - questionnaire (91). The responses rates were 53%, 57%, 61% and 46%, respectively.

Data analyses

Preliminary analyses indicated that the patterns of experiences were similar for TAs from each year of the project. Therefore, the data have been combined and are reported jointly. TA comments have been categorised into broad themes and the percentage of TAs who made comments of a particular type are reported.

Where the views of one particular group was sought (for example, the weekly diaries were only kept by the 1997 TAs), these are indicated. In these instances, the number of comments are reported.

The 'voices' of the TAs are used in this paper to illustrate the nature and breadth of the PD experiences for individuals.

Results

The importance of the structural aspects of the NEMP experience and the benefits gained by TAs are reported in the following sections.

Importance of the structural aspects of the NEMP experience

The eight different aspects of the NEMP experience were examined for their perceived value to those involved, both in terms of enabling them to carry out their NEMP responsibilities reliably and accurately, as well as in terms of insights they gained which may have direct personal professional relevance for their own assessment (and teaching), or have the potential to influence the practice of their colleagues or school.

Figure 1 displays teachers' rating of the importance (on a 5 point scale from 'very important' to 'not at all important') of these aspects of the NEMP experience for their PD.
The overwhelming majority of TAs (more than 80%) rated each aspect of the NEMP experience as a '4 or '5' in importance. The ways in which each contributed to the PD was documented in TAs' comments.

Training week

The importance of the training week was attributed, in the main, to the need to be fully trained and confident in the NEMP assessment tasks, setting up equipment, standardising instructions etc (46%). One TA commented that it 'taught me that thorough preparation is a great confidence booster'; another that 'without this week, NEMP wouldn't be a viable proposition'. However, broader benefits were gained from the week from the interaction with other teachers (18%). One TA felt that the 'chance to work with teachers of that calibre doesn't happen often'. Acquiring a greater understanding of assessment issues more broadly was commented on by 7% of TAs: for example, '...more aware of shortcomings and positives when setting own [assessment tasks]'; and '[it] opened [a] new range of ideas and perspectives'. Only a very small proportion (4%) felt that they had not learnt any new ideas.

In a separate question TAs were asked to identify the most positive (and negative) aspects of the training week. Aside from the 'training' aspect of the week in relation to their direct responsibilities for administering the tasks in the following five weeks (56%/0), the most positive aspect of the training week was the opportunity to meet and interact with a broadly based group of teachers from across New Zealand (68%). The professionalism and support provided by the NEMP team was also commented on frequently (35%). In contrast the number of negative comments relating to the training week was very small. The most commonly expressed concern (by 18% of TAs) related to the intensity of the workload and the need to work in the evenings.

Being part of NEMP team

Working as part of a team was valued for four main reasons. it provided the opportunity to observe different schools/ideas and to interact with teachers in a variety of schools (18%) ('have so few opportunities to get into other schools'); they were able to share the workload and provide support for each other (14%/0) ('support that comes from a team'); teachers developed a greater confidence in professional and interpersonal skills (11%); and TAs felt important/special/professional (11%).
Comments from the weekly diaries revealed that the majority of teachers described their interactions with their NEMF colleague in positive terms (105). The partnerships were successful (70) and allowed them to share or exchange ideas which often went beyond requirements of NEMP (70). Typical comments were:

I am so lucky! My partner is a pleasure to work with. We work independently, yet together, so there is freedom and support. Would not like to do this job entirely on my own but a difficult partner could be a serious problem.

I have learned a lot from my partner as she has completed a Diploma in Maths and we have discussed many aspects of Maths Education with reference to assessment tasks. She has encouraged me to think deeper about reasons for teaching something a particular way and I now realise I could do more for those children who lack real understanding.

Great professional discussions. Having a buddy really makes this project You have time to share, reflect and analyse what you do. Having the time means that we are more reflective and more likely to utilise our experiences elsewhere.

Teachers are independent people who get used to working alone and being self-sufficient. It's good for us to work alongside one another from time to time.
Support from the NEMP office

The consensus view was that it was good to know that help was readily available from NEMP, which was generally described in positive terms, such as, reliable, efficient and professional (46%). Contact with the NEMP office was considered to be supportive (12%), although 4% of TAs commented on not having had any support since the end of the period of secondment. NEMP was generally regarded as ‘a valuable link for ongoing and effective PD’.

The weekly diaries revealed substantial appreciation and admiration of the professionalism of the NEMP team (23) in terms of their organisation of tasks and materials, and back-up support as evidenced in these comments:

- Overall organisation was superb - everything allowed for in training, travel, etc
- Very thorough organisation and coverage of activities

Working closely with children

The most frequent comment made by TAs referred to the enjoyment they got from having uninterrupted time to watch, in depth, the different strategies children used to solve problems (30%), with the one-to-one and small group singled out for comment as these were seen to ‘generate better learning and assessment’ (12%). It provided an opportunity to further develop, refine and practise their professional skills, including establishing rapport (‘good to build positive, fun relationships with small groups’; I will now think more carefully about ideas and questioning’. Several TAs felt that meeting children from diverse schools and backgrounds was also important (5%).

The importance and quality of the interactions with the children was reiterated in TAs' weekly diaries. Over 90% of the comments were positive. Interactions with children were usually friendly, with children described as polite, helpful and delightful. TAs found that the children were usually well motivated and that it was a pleasure to work with them. The following comments reflect the importance TAs attributed to this aspect of their work for gaining deeper insights into children's thinking and processing approaches, the importance of establishing rapport and the benefits of one-to-one time with children:

- Even the 'characters' have willingly obliged in all tasks I'm working on ways I can use 'this' to turn around some of the characters in my own class. Perhaps the video? Types of tasks?
- I have found it very interesting to observe different groups of children and the strategies they're using to solve the same problems. I have been interested in finding out more about learning styles and would like to pursue this when I return to my class.
- I've also found it interesting to observe how important the teacher's role is to keep some groups focused on the task and how well other groups can do when given the time to follow their ideas.

All children have shown how their attitudes to learning and individual learning styles closely affect their progress through the tasks. Some children showed that attributes of persistence and application often are the key reasons why they eventually succeed. Others who have high expectations of their
performance and desire to be right and do well are sometimes hampered by this very attribute.

Able to observe the 'whole child' which therefore makes it a lot easier to target any barriers to learning the child may have.

One to one gives a nice picture of a child. It doesn't take long to find weaknesses, strengths, etc. This is so important to establish rapport I discovered that I can do this with any child ... This was a nice discovery and confidence enhancing.

Allowing children even more time for thinking seems the most significant idea this week, highlighted by one child. Too often in normal classroom practice we are unable to give extended time for this purpose because of time constraints and the pressure of getting everything done. Perhaps this should be reconsidered.

**Visiting a number of schools**

The rare opportunity to see other schools' systems (40%), and to use these visits as a basis for comparison of teaching, assessment and administration (16%) were the most important reasons given for the ratings to visiting other schools whether these were 'enlightening' or 'depressing'. The overview that the visits allowed (7%) 'made us realise how limited our perceptions of New Zealand education can become'. New ideas for teaching (7%) and discussions with staff were further important factors (7:6).

The quality of the interactions with the staff, and to a lesser extent, with parents of the different schools TAs visited, and the insights they gained with respect to these were revealed in comments written in weekly diaries. Most comments (137) indicated a pleasant experience with teacher interactions, eg 'very good...a positive climate'. However, the level of interest shown by staff in different schools was variable. In the main comments suggested that staff showed interest in NEMP (90), while a reasonable number of comments indicated little interest (50). The overload' factor, a lack of a good understanding of NEMP, and pressures of work were seen as the prime reasons -- or the latter. The following TAs' comments illustrate the nature of these interactions and the benefits the TAs gained in return:

initially I and I were treated with caution by staff. But after providing a brief overview on Monday and assuring teachers that the focus wasn't on them, they warmed considerably

Teachers either not interested, felt embarrassed by their lack of knowledge of, or were intimidated by national monitoring

One or two teachers viewed us as a close relative or ERO [Education Review Office] and expressed concern about what we were testing and what outcomes would reflect on them

Teachers in some schools seem over-burdened. Don't want to hear about 'another thing.'

Have enjoyed chatting about school topics, comparing and contrasting my own school situation. Interested, but I am surprised at the lack of knowledge about NEMP and its purposes amongst teachers/principals
I had the opportunity to talk with staff at the morning tea we helped to provide (about NEMP)...one teacher spent a whole lunchtime sharing what they are going to set up by way of school system on assessment.

'Time out' from own class

Teachers generally felt that time away from their own class had been of benefit to them (49%), for reasons ranging from 'as good as a holiday', to being free from demands and stress for a while. Typical comments were:

- My creativity's beginning to return.
- [ didn't realise how stressful teaching was until I had to go back] No pressure, no after hours, and heaps of laughs with my partner.
- [I] can enjoy my own teaching again.

Having time to reflect on teaching and on the future was again mentioned (18%) - 'it allows a more objective assessment of your own practice'. Important decisions were made, including resigning and seeking a new career path.

While some may have found the 'professional gains outweighed missing [their] own class', not everyone found the time out worked in their favour. For example, on TA 'didn't quite have time out, as I was still in close contact with [my own school (Assistant Principal)] - paperwork and staffing decisions'. Another found that the class had 'slipped back a lot', for another it took four to five weeks for the class to resume their old routines. Several TA5 missed their classes and a huge part of their learning.

NEMP reports of results

Most comments indicated that the NEMP reports were seen as useful or applying in the classroom, in either assessment or in teaching, and as a guide to improvements (21%). The reports 'enable us to 'prove our findings and educate'. The general impression was that the reports are of high quality, interesting, relevant, and worthwhile (21%), looked forward to (11%), and essential for an overall view (12%) - 'we can see the results in context and how we're faring with our curriculum content.

A small proportion of teachers (7%) commented that they would now have a better understanding of the reports or were encouraged to now read them having been involved in NEMP as a TA. Several teachers identified the difficulty a teacher would have to actually find the time needed to read them.

Assessment ideas

The importance of NEMP for providing ideas for assessment tasks which could be used in their classroom or within their school is reflected in the ratings reported in Figure 1. The majority of teachers had gained general ideas about assessment (for example, 'I have a better understanding of assessment practices and how they can be built into existing programmes. Keeping them simple!'), or adopted specific assessment tasks for their use, for example, 'Fabulous, easy to use ideas back in the classroom - were fun but appropriate and easy to evaluate', 'have adapted and used many, school-wide and in own room'.
The weekly diaries revealed numerous insights and understandings about assessment gained by TAs. Comments related in the main to:

- the quality/value of the assessment tasks and resources (142): 'Use of physical resources to simulate real life', 'Clear and easy to follow', 'Attractive to the children', 'Activities where students have to think up their own questions or things they'd like to find out...are a 'useful window on children's thinking'.
- tasks/ideas adaptable for classroom/school (119) 'Many of the activities, especially question forming and prediction, I will use as teaching points in my class...shown up as an area where children are poor.', 'Gave good ideas (especially booklets) for independent tasks in maths which cover all stands [of the curriculum].
- assessment ideas (65) 'Have to leave children to work it out for themselves longer than I would usually - and they do better than I expect sometimes. In my own class I should be letting the children explore the challenge for longer before 'rescuing' them.', 'It's given me a great idea about where my next year's Y.5 children are coming from (end of Y4). What a great way to prepare for a level of teaching! This would be so much more valuable than hours of record keeping to hand on to the next year's teacher.
- tasks easy to administer (48).
- impressive organisation of tasks /material/administration (31): 'Overall organisation was superb - everything allowed for in training, travel, etc.
- the variety of assessment practices (33): 'The short and well-varied nature of activities ensured that intense concentration was maintained'.
- teachers gaining confidence in setting up and administering tasks (35).
- the value of using a video (33) 'Students were not hampered by reading problems when the video was used'.
- students lack of knowledge (29) 'NEMP has emphasised basic general knowledge important to New Zealanders eg, being able to describe the national flag, Treaty of Waitangi, knowledge of historical events. These tasks have exposed a real lack of knowledge and therefore I'm absolutely determined to change part of my programme to include such things that are important or have been lost in the new Social Studies curriculum.'
- no 'right'/'wrong' (7); 'No pressure to 'get it right', but that the emphasis was on performance-based assessment'.

The value of undertaking the assessments for gaining insights into how children think and problem-solve is expressed in the following comments:

I feel better qualified to teach now, after observing so closely, for so many hours, the way children approach tasks. The experience has taught me to be more patient with children who just need more time and practice with a particular concept, or moreover to put aside more time to help them advance in their understanding in the classroom. This will mean ignoring all the external pressures which interfere with teaching

Learnt more this week (about) the abstract or lateral responses of pupils. Also the need back in own school to ensure questions are open, specific, and not to presuppose answers and to refocus, reprompt.

Keep finding that's how someone in my class learns or thinks. I know how to help them now.
The benefits of the NEMP experience

The benefits (or otherwise) of the NEMP experience for TAs were further identified through a series of questions which asked TAs to relate the most, and least positive aspects of their work as a TA, their confidence to carry out their NEMP responsibilities, their ratings of the PD gained and what they had been able to achieve on their return to school.

The most and least positive aspects of work as a TA

The most positive and least positive aspects of working as a TA have been summarised in Table 1.

Table 1
The most and least positive aspects of working as a TA

**Most positive**

<table>
<thead>
<tr>
<th>Aspect</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interaction with children (in small groups or 1 to 1)</td>
<td>98</td>
</tr>
<tr>
<td>Broadened knowledge of/insights into assessment</td>
<td>46</td>
</tr>
<tr>
<td>Opportunity to visit a variety of schools/meet other teachers</td>
<td>42</td>
</tr>
<tr>
<td>Time out' - to reflect - lack of personal stress</td>
<td>35</td>
</tr>
<tr>
<td>Working with a (NEMP) colleague</td>
<td>18</td>
</tr>
<tr>
<td>Talking to teachers/parents to talk about NEMP</td>
<td>18</td>
</tr>
<tr>
<td>General personal/PD</td>
<td>18</td>
</tr>
</tbody>
</table>

**Least positive**

<table>
<thead>
<tr>
<th>Aspect</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unfriendly schools/suspicious staff</td>
<td>26</td>
</tr>
<tr>
<td>Monotony of tasks by fifth week</td>
<td>19</td>
</tr>
<tr>
<td>Being unable to help children</td>
<td>11</td>
</tr>
</tbody>
</table>

The most commonly cited positive for teachers was being able to work with children in small groups, or one to one 'especially with those perceived 'is difficult and unlikely to co-operate'. This 'made a pleasant change from classroom work - [was] more personal', 'was a luxury [they] don't usually have' and allowed them 'time to listen to their [the children's] ideas' without being interrupted. Working so closely with children provided insights into different problem-solving techniques' and allowed children to 'perform well in [a] stress free environment'. For some the benefits were from observing how 'children felt special', 'how children deemed 'slow' grew in confidence and succeeded'. One TA described it as a quality learning experience for all.
The opportunity to visit a variety of schools and speak with other teachers allowed the TAs to gain valuable ideas about assessment, administration and education and prompted them to ‘explore their [own] systems and philosophies’. One TA commented that the ‘contrasts between schools puts aspects of [their] own school into perspective’, while another said that s/he ‘certainly appreciated what I had more, having seen other school and other children’. Similarly, working with a NEMP colleague was valuable for support, ‘bouncing ideas off’, the opportunity to complement each person's strengths, and for a number of TAs they ‘made a new, close friend’.

'Time out' from the routines and demands of the classroom, to reflect on their professional practices (or their future), and to be in a more stress-free environment was another important benefit of the NEMP experience. For one TA, s/he hoped it allowed ‘time to let my employers see the gap I left when I wasn't at school’.

A number of TAs commented on insights/knowledge they gained in relation to assessment itself. One TA found NEMP provided a reminder of the importance and value of assessment, another realised that it is more appropriate ‘choosing key representative skills to assess’ rather than every objective from the curriculum; another was ‘more able to appreciate what constitutes an appropriate task’, while for a third TA ‘realising that assessment needn't be written' was important. TAs also improved their questioning and audio-visual skills and gained ideas for assessment they could use in their own classrooms from the NEPVIP tasks they were administering. NEMP tasks were seen to provide 'good models for classroom; refreshing /reflective'.

Being a TA also contributed to teachers’ PD in a general way as well as m relation to NEMP specifically. For example, TAs commented on improving their management skills (for example, running meetings, time management, administration); their interpersonal skills With children, the community, schools, and parents; and their self confidence - ‘...accepting a new challenge/trying something new - feeling the fear and doing it anyway!' 

The number of responses in relation to the least positive aspects of their work as a TA was very small in comparison. Unfriendly schools and suspicious staff were a source of discontent for a number of TAs. These reactions generally seemed to arise out of a lack of understanding about NEMP. For example, fears were expressed that ‘students' performance might reflect on [their] own teaching' and 'we were from ERO (Education Review Office)'. Some TAs (19%) complained that after five weeks of administering the same tasks, the job had become monotonous, and being unable to help children being assessed, or to give feedback proved uncomfortable for a small number because 'some children thought they were failures and needed to be shown they weren't' or 'holding back's the hardest thing'.

**Teacher confidence of aspects of NEMP**

TAs in 1997 were asked to indicate on a 5-point rating scale how confident they felt in relation to a number of aspects of their NEMP experience (Figure 2).

TAs were almost universal in their confidence of their increased knowledge, understanding and experience of assessment. Almost 100% rated themselves as being 'very confident'. At only slightly lower (but at still overall very high) were TAs' levels of confidence with respect to administering assessment tasks according to the manual, efficiently and accurately. In addition, TAs' level of satisfaction with being part of NEMP, enjoyment of quality working relationships with colleagues and appreciation of the importance of rapport in assessing children were similarly high.
Teacher administrators' ratings of the professional development through NEMP.

TAs were asked to indicate on a 5-point scale (i) how they would rate the PD they gained from their work as a TA in comparison with other types of PD.

Ninety-six percent of the TAs who responded (N=53) rated the PD from NEMP as ‘4’ or ‘5’ on the scale from 'extremely high' (5) to 'extremely low' (1). The mean rating was 4.53.

A variety of reasons were given for this level of satisfaction: it allowed time to reflect on assessment (6); one could immediately apply what had been learnt (8); they gained a greater awareness of the place of assessment in teaching and learning and insights to be gained (8), enjoyment (4); greater self confidence (4); and it allowed a hands-on experience (4).

While one teacher commented that 'it's not designed to be PD that can be transplanted back into one's own classroom', the vast majority of TAs who responded expressed rather different sentiments. Several teachers made particularly poignant statements about the impact of NEMP on their PD:

Greater confidence in talking about 'assessment having had this experience. The whole issues of how we assess has worried me for some time...but now I feel I am able to use this information [PAT Maths] wisely and stand firm with my beliefs about assessment practices and procedures. This experience has helped me tremendously - not only adding credibility when I talk to parents and teachers, but also setting up soundly based policies for the future.

Never encountered such superb organisation or sound knowledge of school and children at a practical level. There hasn't been the frustration or feeling we were dealing with theorists.
The effect has been dramatic and I believe it will be long lasting. After almost 20 years teaching and an endless list of forgettable courses this came at a very good time. I had experienced two hard years and was feeling 'shell-shocked, This gave me the boos I needed

Work back at school

TAs were asked what particular ideas, practices, innovations changes etc they had gained from their work with NEMP they had adopted in their class or school on their return to school.

While 25 teachers reported that there had been insufficient time (at the end of the year) to implement any changes to their assessment or teaching practices as they were involved with other responsibilities, such as, supervising teacher trainees in their classroom, or end-of-year activities (camps, concerts, report writing) or had not returned to the classroom, the remaining 37 teachers identified a wide range of practices they had put into place. Over twenty comments related to changes/insights into aspects of assessment more generally, such as, being more aware of their questioning techniques (5), being selective in the assessment objectives assessed (3) 'smaller, specific tasks'; an appreciation of how simple some activities can be, how easy to administer and mark (3); the use of a video camera (4) and trying to provide higher quality resources, tasks and learning activities (2). The nature of some teachers' reflections on assessment at this stage is illustrated through these comments: 'assessment needs to be practical, ongoing and manageable', and 'the validity of assessment needs to be worked on'. However, one teacher lamented:

[I reflected on [my] owm data gathering methods when updating children's records, but the realities soon sink in: class size; gathering, recording, analysing data consumes time; haphazard way the new curriculum documents have been produced; lack of in-service support.

Nineteen teachers had focused on a particular curriculum/skill areas in their reaching based on shortcomings they had observed in children they had tested, for example, general knowledge in social studies, problem-solving, famous New Zealanders, basic research skills, active listening skills, basic maths and computation skills, decimals and fractions etc. One TA related this example:

Have initiated a new, more refined system for Maths. Had previously had Maths boxes for each group to select extra activities from. Now rotate one-to-one, station, ream and independent activities This allows more scope with revision as well as practice of current teaching. Children love it because of the variety. 1 love it because I have a better opportunity to track each child's progress.

Six teachers commented that they had been able to share their ideas/insights with their colleagues, for example:

As leader of assessment at school, [I] have introduced [the] idea of benchmark type tests; at ~J2/S2/S4 so as to allow teachers to monitor and use their time for more teaching.

Set up an evaluation of our measurement teaching in Maths

I floated [the] idea of an exemplar book to demonstrate benchmarks an give reachers further guides of assessment.
A small number of teachers had expressed a greater awareness of the need to allow children the time to actually make responses to questions, rather than giving them the answers; 'listening to children's responses more carefully and waiting for them to respond'.

Several months after being back in the classroom, the responses from 61 teachers included 100 ideas that had been put into practice. Half of these were relatively unique to particular teachers; the other half had been adopted by at least several teachers. The most commonly adopted ideas related to:

- developing a wide range of assessment tasks (27) (for example, 'practical tasks involving equipment: measurement. Getting children to explain their thinking: planning and interpreting statistical investigations clarifying what tasks demand. Tying assessment closely to achievement objectives.'
- using group/team work/assessment (13); school-wide benchmarks/exemplars/data, including annual school wide assessment of particular skills (11), such as, a school-wide science assessment using NEMP activities, a cycle of reviews which follows the cycle of NEMP assessments, and looking at 2-3 curriculum areas per year, using some NEMP tasks.
- specific ideas for curriculum areas (eg Social Studies, reading (28)
- video/audio taping of tasks (7).

Discussion

The evidence is clear from the data provided that the structural aspects of the NEMP experience and the PD benefits from it were numerous, broad and multi-faceted, and reflect the spectrum of benefits highlighted in the literature (for example, Dewar and Bennie, 1996; Donn, 1995; OECD, 1998; Renyi, 1998; Watters and Ginn, 1996; Zeegers, 1994). The most substantive benefits related to personal and professional factors, teaching/curriculum factors, and assessment factors.

Personal benefits:

- Increased self confidence
- Increased self esteem
- Emotion and stress relief
- Re-energising from a 'sabbatical'
- Revived motivation for teaching

Professional benefits.

- Confirmation of the quality of their own teaching
- Teachers felt valued as professional/ "expert"
- Collegial support (other teachers, NEMP)
- Interaction with other teachers
- Sharing of ideas with colleagues
- Valuable ‘brownie points’
- Being able to reflect on their future, teaching and assessment practices.
- Increased desire to be involved in NEMP again, as a marker, or in the next cycle

Teaching/curriculum benefits:

- Slow down the pace of teaching and learning/give children time to think and respond
- More 'open-minded' about teaching
- Awareness of gaps in children's knowledge and skills
- Resources/ideas gained for other curriculum areas

**Assessment benefits:**

- More informed about assessment
- Contributions to school-wide assessment policies and practices
- A greater appreciation of the balance required between the quality versus quantity of assessment
- A greater appreciation of the balance required between the assessment of process versus product
- Heightened awareness of the importance of establishing rapport with children
- Use of technology - especially video equipment
- Improved interview/questioning techniques
- Awareness of the importance of instructions
- Use of co-operative, group assessment
- Use of open assessment formats
- Use of 'manipulatives'/visual' forms of assessment
- Specific training for the standardised administration of assessment tasks

As Zeegers (1994) also found, many benefits were relatively unique to individual participants. This was evidenced through the numerous and very wide range of experiences and views expressed by TAs and illustrated through the comments quoted in this paper.

Clement and Staessens (1993) contend that 'the more positive learning experiences teachers have, the more progress they make in their professional development' (p. 133). There is no doubt that the NEMP experience is a very positive learning experience for teachers and it contributes in significant ways to their PD.

The full extent of the PD from the NEMP experience has not been explored in this paper. Other data collected throw light on two additional significant areas of the PD gained. The first relates to changes and improvement to practices in the classroom or school (Burgess and Galloway, 1993; Campbell, 1997). This is explored through the case studies. The second relates to the spin-offs for others, such as students, colleagues and schools (Campbell, 1997; Hollingsworth, 1996; NZ Ministry of Education, 1996; Renji, 1998). A number of TAs commented on differences they had been able to make to school-wide assessment practices, such as, now have an influence with staff and can make changes. Already more suggestions are making changes school-wide'; on return...joined the Assessment and Evaluation Committee at school gave ideas on types of school-wide assessment'; or gave time to develop model systems for [the] school'.

The spin-off impact of the NEMP experience for others and the factors which may facilitate or hinder this process, anti actual changes to practice will be the subject of future papers.

The final word in this paper I give to a choral of Year 4 TAs who wrote (and performed) the following Song for NEMP.

**Song for NEMP**

(To the tune of the Beverley Hillbillies)

At the end of the training week..

We'll tell you a story about NEMPP,
Directors were keen as keen could be,
They organised a course for us all
and BOY oh BOY we had such a ball
Great that is - LOTS of fun - met new friends.
Stations, teamwork, 1 to 1.
The kids in this programme will have such fun,
Assessment need not be a drag,
On behalf of this project we will all brag
Skite that is...represent..advocate.
Professional development was a key issue,
Ben e fits will surely accrue,
Sooner or later we'll each be a whiz,
With the occasional...odd wee tizz.
Panic that is...lost forms...missing cords.
Never fear, there's an 0800 number,
Guaranteed to mask such a blunder,
All we've got to do is just ring,
The requested items someone will bring.
Security that is...back up...peace of mind.
Remember administrators, not too much praise.
Or the validity of the tasks we may erase,
We don't want to make it hard to score,
This advice of Lester's we mustn't ignore.
No more GREAT! Right On! Excellent!
The video player will not go,
Ring 0800 oh no no no!
"Drop it" said Terrv,

Never fear...just a glitch to drive you spare.

Drop it that is...fix it...Oooops...Never mind... Repair bill.

Supplies are a problem - listen to Liz,

Ordered a bird book, oh what a tizz,

Whitcoulls luckily eventually obliged,

The kiwibird activity we now have tried

Indexed that is...major cock up...re-order.

Fed us scones, we loaded our plate,

After a week we all gained weight,

Dates and cheese and sultanas too,

A bit of butter and jam will do

Hot that is buttered fresh CHOLESTEROL

The room at the top has a very nice view,

The jokes and stories grew and grew,

Janjce laughed along with the rest,

Numbering from the left we did our best.

Teams that is...A to C...1 to 4.

W'e all learnt to tweak while we were away,

Lines and wrinkles kept at bay,

You d better be careful, not too tight,

Or you'll grow a beard overnight

Horror that is...bags...chin fluff!

Now the week has come to an end,

The purpose of monitoring we'll always defend,

So get out the tape, wrap it up well,
The funny stories are yet to tell
Shuttle here...going home...see ya.
At the end of six weeks..
Year 4 administering has come to an end,
Computer and cameras and boxes we'll send,
Back to the NEMPLE for the markers to use,
They'll get to see the smiles and the blues
Answers that is...discussion...prompting.
Six weeks has passed and we've done the job,
It's back to our school to teach the mob,
Marking, duty and meetings galore,
All those jobs that we really abhor
Stress that is...worry...responsibility... HOMEWORK.
This job was great, the faxee we enjoyed,
Thanks for seeing we were all employed.
Countryside we saw, people we met,
We leave our position nothing to regret
Bye for norv, Haere ra, Ka kite ano...
REFERENCES


Campbell, B. (1997) Professional development - Beyond the one-day serving. The Practising Administrator, 2, pp 26-35.


