Personality and Social Psychology

They’re always there for me! Friendship and meaning in young people’s lives?

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What gives individuals’ lives meaning is one of the bigger questions confronted by community members? Making sense of our lives and determining what it is that provides us with direction, strength, or commitment is no simple task and even more so in western consumerist societies where so many experiences appear accessible. Finding ways to elicit thoughtful responses from research participants, has led to varied approaches to this increasingly rich research area. An encouraging method is to use digital photography to extract information on what it is that captures participants’ ‘mind’s eye’ when reflecting on meaning in their lives. In this article, a pilot study using a combination of digital photography and descriptive narratives was established to explore the thoughts of 174 year seven students in a private West Australian school on what provided their lives with meaning both in school and outside of school. The photos and narratives were explored for themes and while many categories were identified, it was apparent that relationships were the strongest source of meaning in their lives.

Key words: Meaning in life, happiness, wellbeing, secondary school.

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Dedicated to Simon Bradley a man who truly understood the meaning of life.

INTRODUCTION

In 2009, the TV show Australian story, explored the story of paper plane throwing champion Dylan Parker; the episode was entitled The meaning of life (Chesire, 2009). Dylan had undergone brain surgery a short time before the paper plane throwing world championships, but still achieved a bronze medal. In Australian story he described the feelings that surrounded a perfect paper plane throw; “You just forget everything in your life, and you’ve got no worries and it’s an amazing feeling.” Dylan felt at a young age he had discovered the meaning of life. Csikszentmihalyi (1990) would describe Dylan’s discovery as finding flow; those things that challenge and engage you, that make you persevere at a level where skill mastery is possible, that you grow to love and that ultimately give you strength and direction. Discovering these things should make perfect sense for schools in their role of developing successful young people; surely those things that provide individuals with meaning in their lives would be noticed and nurtured! Of course this assumes that schools are aware of what it is that provides meaning in life for young people. In the pilot study reported here Steger, Shim, Rush, Brueske, Shin and Merriman’s (2013) auto-photographical technique was utilized (Steger, personal communication) with 174 Year 7 students, to determine what provided meaning in life for them both inside and outside school.

Meaning in life as a theoretical construct was established by the work of Victor Frankl, who, via experiences in a Nazi concentration camp, reflected on how different individuals were able to draw strength from a variety of sources and survive the harshest circumstances. Frankl (1963) maintained that humans have an instinctive desire to find meaning and significance in their lives and failure to do so causes psychological distress. His words below capture life at the very edge stripped of the niceties most citizens in the western world have become accustomed to over the last 50 years:

I told my comrades (who lay motionless although occasionally a sigh could be heard) that human life, under any circumstances never ceases to have a meaning, and that this infinite meaning of life includes suffering and dying, privation and death (Frankl, 1963, p. 104).

Frankl witnessed a life-force that “motivates virtues and noble behaviour regardless of pragmatic circumstances” (Steger, 2014, p. 57). How Frankl’s first hand observation of life at the very margins translates to today depends on the life circumstances experienced by individuals. Martela and Steger (2016, p. 531) in their thorough “conceptual refinement” break the construct of meaning in life into coherence (making sense of one’s experiences), purpose (having a direction and future oriented goals) and significance (the worthwhileness of one’s life; King, Hicks, Krull & Del Gaiso, 2006, p. 180). Thus we can see that meaning in life as a concept is multifaceted; nonetheless, what is common to all humans is that we have one life and making sense of this experience is central to us all.

From an adult point of view, meaning in life has documented associations with psychological and spiritual wellbeing (Steger, 2009), happiness (Ryff & Keyes, 1995; Steger, Oishi & Kashdan,
have moved towards the "meaning in life" approach, with its emphasis on rating broad categories in terms of "how much" meaning individuals had in their lives, fails to acknowledge that life meaning can be deeply personal and contextual. Given that the quantitative approach has been the predominant way in which meaning in life is studied, "what" provides meaning in life is at a much earlier stage of development as an area of study, particularly as it relates to adolescent students in schools. Steger et al. (2013) pondered this question in their research on understanding meaning in peoples’ lives: How does one individual person answer the question of his or her individual meaning in life?

The movement towards more individualized qualitative approaches to studying meaning in life was pioneered by Ebersole and colleagues who developed the Meaning in Life Depth approach. Throughout the 1980 and 1990s, they explored sources of meaning in life in several age groups – from children to elderly nursing home residents. They developed a variety of techniques to elicit student responses, appreciating that self-reporting assessments were too limiting. De Vogler and Ebersole (1983) explored meaning in life for young adolescents (13–14 years of age) and asked them to rank the three most important things in their life. As was the case in their initial study with college students (De Vogler & Ebersole, 1980), these young adolescent secondary students recognized relationships, service, growth, belief, existential or hedonistic pursuits, obtaining, expression and understanding, as providing meaning in life. They also found three categories for meaning in life that were unique to the younger adolescents: activities, school and appearance.

Expanding their research base, Taylor and Ebersole (1993) explored whether a group of 26 year-one students were able to express whether they could identify personal meaning in their lives. They were asked, "in your whole life what is most important to you?" To add age appropriateness to their methodology, the students were also asked to draw a picture of what these important things were. The students were recorded using their own writing, along with verbal responses. The authors found that the year ones they studied obtained meaning in life from relationships (42%), activities (sport or hobbies) (21%), beliefs (of a religious nature), growth (self-improvement/meeting goals) and obtaining (receiving something nice such as a present) (8%), and school (4%). While the researchers were pleased with the capacity for these children to express thoughts on the most important things in their lives, they felt they had no capacity to appreciate how these things made them feel fulfilled and satisfied with life.

Extending this movement towards deeper qualitative research, Michael Steger and colleagues explored a variety of ways to generate self-perspective on what provides individuals with meaning in life (Brassai, Piko & Steger, 2013; Brassai, Piko, & Steger, 2011; Steger et al., 2006; Steger, 2009; Steger et al., 2009; Steger, 2013). In recent times they have moved towards even more authentic and practical visual research methods (Steger, Shim, Barenz & Shin, 2014; Steger et al., 2014). This methodological shift was considered prudent, as Steger et al. (2013) suggest that many individuals struggle to describe experiences that are deeply personal (as in what gives meaning in life) both in spoken and written form. They also contend that when individuals are asked to write responses in research situations, they are in environments that provide limited visual cues (i.e., in a library, classroom, at university). Additionally, individuals may frame their responses in a manner that they imagine their audience might expect and therefore be drawn to culturally stereotyped sources. As a result of these factors Steger et al. (2013) used auto-photography to elicit meaning in life sources from young adults. They asked 86 first year university students to take "photos of the things that made their lives feel meaningful." They were informed that they could take either photos of real things (people, animals) or symbolic items, and did not have to represent things that were proximal, as they would be able to add a personal narrative to their photograph to expand their thoughts. The students took a maximum of 12 photos and then were asked to put these photos in rank order. Using an open-coded method (Strauss & Corbin, 1990) the participant responses were categorized into a main category and then through further analysis, sub-categories. The result of three independent reviewers and consensus meetings indicated that the most common sources of meaning in life were relationships, hobbies/leisure activities, nature, education and individual possessions.

Although there has been limited research in this area, meaning in life for adolescents can play a protective role with regard to health risk behaviours (Brassai et al., 2011), enhance self-efficacy and self-regulation (Brassai et al., 2013), improve career aspirations, confidence, and curiosity (Yuen & Yau, 2015) and provide young people with a coping mechanism when faced with traumatic life events (Tripplett, Tedeschi, Cann, Calhoun & Reeve, 2012). For young people with complex needs, meaning in life can provide a deeper understanding of social issues and personal values (Kang, Kim, Song & Kim, 2013).

Despite this encouraging evidence of positive links between meaning in life and psychological health, very little is known about what provides Australian students with meaning in their lives. This is of concern, as the prevalence of major depressive disorders in school-age students has increased from 2.1% to 3.2% in the new millennium (Lawrence et al., 2015). If this growth in mental health issues amongst our nation’s young people simply reflected a downturn in economic indicators, then schools and their extended communities would clearly understand the trigger points; but these changes have occurred in a period of sustained growth in Australia, and more specifically in Western Australia during an unprecedented economic ‘boom’ (Technology and Industry Advisory Council, 2010). Perhaps this current malaise for young Australians is, as Seligman, Ernst, Gillham, Reivich and Linkins (2009, p. 293) discuss, less to do with ecological, biological or cultural factors and more to do with “modernity and perhaps what we mistakenly mistake for prosperity.” Thus, providing mechanisms and opportunities to develop and fine-tune
a deeper understanding of what is important in young peoples’ lives within the school setting, may provide tools that are critical for student’s to address the fluctuations that present in their lives (Reivich & Shatte, 2003).

Thus, the current study acknowledges the growth in positive psychology interventions in Australian schools (Chodkiewicz & Boyle, 2017), and re-works Steger et al.’s (2013) minds-eye approach – to explore a uniquely individualized view on meaning in life both in and out of school, for students at a unique time in their school and personal lives. The research limited the students’ responses to four self-selected images (Steger et al., 2013 encouraged a maximum of 12 ranked photos); thus creating a manageable process for potential school replication. This current study is the first of its kind to be conducted in an Australian school and will provide a deeper understanding of what it is that provides early-adolescents meaning in life.

METHODOLOGY

Participants
The school involved in this pilot study was a large co-educational private school of approximately 1,200 students in a relatively affluent coastal suburb of Perth, Western Australia (WA). One hundred and seventy-four year seven students all between the age of 12 and 13 years participated in the research. There were more female participants (56%).

Procedure
The current research was made up of four separate, but interrelated research phases.

Phase 1. The selected school had invested considerable time and resources into their positive education program: the PERMA model (Positive emotions, Engagement, Relationships, Meaning, Accomplishments) (Seligman, 2012) and were aware of the research teams previous work in the area of happiness and wellbeing (O’Rourke & Copper, 2010; O’Rourke, Cooper & Gray, 2012). After meeting with the schools Director of Positive Education and the Dean of Year Seven students, it was felt that the ‘mind’s eye’ project developed by Steger et al. (2013) would provide a practical, student focused and potentially revealing project about what was important in young people’s lives. After receiving ethics approval from the university and WA Catholic Education to conduct the research, the school principal and other key school personnel met to discuss how this research approach could connect with their existing positive education program. After these discussions, it was decided that the goals for student participation in the research would be:

1. Provide a practical method for students to focus on what provides meaning in their lives.
2. Provide an opportunity for students to share as a year group what provides meaning in their lives and to reflect on what this means to them as a community of learners, and
3. Provide an opportunity to share these types of discussions with the greater school community.

Towards the end of the third school term, the research team visited the school and spoke to the year group and school staff about meaning in life research, giving examples from previous studies and explaining that we were interested in meaning of life both in and outside school. The current research, while employing similar techniques to Steger et al. (2013), was quite different in its goals. While the current study represented an opportunity to reveal meaning in life categories for this student group, it directed the student focus onto meaning in school life as a specific focus as well. Additionally, the process of collecting images and providing students with opportunities to independently navigate their way through the data collection process, was not only promoted as an integral part of the research (maximizing the student’s opportunities to personally reflect on their choices), but potentially as a pathway for positive education school activities. The process of taking two photos about meaning in life in school and two about meaning in life outside of school was discussed with the students, and how they would send these to a school wiki created for the research. The nature of the photos was clarified, in that they could be about people, animals, places, beliefs, and possessions as well as visual representations of relationships and feeling. As with Steger et al. (2013), it was discussed that the photos could be derivative of their meaning in life choice, as it could be explained via their personal narrative.

Phase 2. Consent forms were sent home to parents (N = 238), and of these, 186 parents agreed for their children to participate in the research. Over the first 2 weeks of the last term of the school year (term four in WA), students took images using commonly available technology (e.g., mobile phones or tablets) and sent through these images to the wiki established for the study. A research assistant printed the digital images into color hard copies and, using their pastoral care group (PCG) names, devised a code that identified the student without naming them. The images were then collated, the identifying code for each individual written on the back of each hard copy (a separate code existed for in school and outside of school images), and then organized the images into the students’ PCGs.

Phase 3. Upon organizing the hard-copy digital images into eight separate PCG folders, the research assistant and chief researcher met the students in their PCGs over a week (there were 8 PCGs – mean number of students in each was 30). During the PCG meetings (which took approximately 40 minutes), the students collected their hard-copy digital images and were first asked to write a brief narrative about why the two digital images they chose gave their school lives meaning. They were asked to do this quietly and respectfully and were reminded to give “special thought” to the narratives. Next, the students were asked to write a brief narrative about why the other two digital images they chose gave their out of school lives meaning. Students were asked to check that they had completed all narratives before the narratives were collected by the research assistant. On average, the girls wrote 37 words per image, while the boys wrote 25 words per narrative. To complete this data collection phase, the students completed a self-reported happiness scale. Due to absentees and timetable clashes, of the 186 students that had consented to participate and had submitted photos, 174 students completed this phase of the research.

Phase 4. The hard copy images with their associated narratives and consent forms were photocopied by the research team and the data was entered into EXCEL spread sheets by a research assistant. The original color hard copies of the images were returned to the students in a follow up PCG class, and the variety of meaning in life sources were discussed. Students were encouraged (where they felt comfortable) to volunteer their reasons for selecting these sources, and the PCG teacher coordinated these choices and looked for similarities, differences and patterns. The students then typed up their individual narratives associated with the images and printed these thoughts so they could be displayed with their A4 size photos. Those students that consented to display their photos and narratives resubmitted them to school staff (n = 114 64% of participants), who then placed the images on partition boards and displayed them (along with information on the research project) in the foyer of the school hall for a 1 week period. Parents were encouraged to visit this display and, given that the display of the images occurred towards the end of the year (a busy time for the school), a large number of school community members viewed the installation. It was felt that this installation highlighted aspects of positive education, and demonstrated...
that the school valued the thoughts, interest and aspirations of their youngest community members.

Data analysis

Utilizing the analytic inductive coding approach employed by Steger et al. (2013), the first author and a trained research assistant (a Master’s of Psychology student) established initial categories for meaning in life in school and meaning in life outside of school based on the face-value of images selected by the students. Consistent with Steger et al. (2013, p. 535), the researchers were not trying to develop a theory but were rather attempting to establish “representative categories of sources of meaning.” Subsequently, only open coding (establishing categories from the initial images) and axial coding (examining categorical intersections) were conducted.

In the open coding phase of the data analysis, the two coders independently examined each student image and narrative to establish the initial source of meaning for the image. These initial codings were organized into a main category and sub-category. For example, it was not uncommon for students to select an image that on initial viewing was categorized as “holidays,” however, the narratives revealed that the selection was more about time spent with family. In some instances, images were sorted into multiple categories. After the completion of the independent coding, the two researchers reviewed the initial categorization of their research colleague (initial percentage agreement for meaning in life sources in-school was 80% and out of school 75%). Over a period of several hours, more fine-grained consensus on categories and sub-categories was achieved. As with Steger et al. (2013), the process was extended so that images not strictly aligned to categories and beyond the parameters of connected sub-categories were given new more specific categories to represent meaning. This process was continued until all images were categorized and the researchers could no longer find images that did not have a clearly defined category.

RESULTS AND DISCUSSION

The student’s main categories for meaning in life in school and meaning in life outside school were established and are shown in Figs. 1 and 2.

In school meaning in life

The students established a variety of different categories that provided their school and outside of school lives with meaning. In terms of what gave their school life meaning, eleven sources were identified: (1) friendships, (2) learning, (3) sport, (4) school physical environment, (5) extra-curricular, (6) digital technology, (7) teachers, (8) religion, (9) food, (10) self, and (11) miscellaneous. As with previous research exploring meaning in life in educational settings (De Vogler & Ebersole, 1980; De Vogler & Ebersole, 1983; Steger et al., 2013; Taylor & Ebersole, 1993), a high percentage of sources (82% – see Table 1) attributed meaning in life to friendships, activities, and learning.

As a result of the photo-elicitation approach, these sources were broken up further into sub-categories after analysis of their narratives (see Fig. 1). In comparison to Steger et al. (2013), exploration of meaning in life for college students, the categories were less varied and more obvious in their sources (whereas the college students more often used images such as their cars to represent freedom, status, friendship, etc.). This finding was possibly explained by the students in Steger et al. (2013) taking up to 12 photos, thus identifying a wider variety of sources often reflecting life experiences the younger students in this current research have had little exposure to (i.e., traveling independently with friends, being financially self-reliant, being in a romantic relationship, etc.). Nonetheless, the unique aspect of this research is that it allowed participants to break down their sources of meaning in life into finer detail. For example, learning/education (De Vogler & Ebersole, 1980; De Vogler & Ebersole, 1983; Taylor & Ebersole, 1993), was dissected to include love of subject, aspirational learning and how learning was connected with their futures, the joy of academic success, the gratitude of being given an opportunity to receive a good education and the difference learning with friends makes. Furthermore, friendships that were revealed to provide the most meaning in school life, again could be broken down into different types of relationships based on enjoyment of a subject or activity, shared interests and the capacity of friends to offer support. Interestingly, students in the present study rarely highlighted classroom teachers as being a source of meaning in school life and often revealed in their narratives that friends provided them with support both academically and emotionally.

Initial analysis of images selected by the students, showed students unpacking common categories of meaning in school life, only to reveal subtler references to loyalty, trust, inspiration, care, love, and gratitude. For example, Fig. 3, a student represents learning via a file and a computer screen, but reflects in the narrative that it symbolizes the joy of learning and the mechanism for aspirational pathways. Additionally, a student points out that her extra-curricular activities such as the school production are a source of meaning in her school life, but additionally reveals there are multiple reasons for this including, appreciation of the opportunity, personal growth, feelings of success, self-confidence, friendship, personal pride, school pride, happiness, and determination. Thus, as with Steger et al. (2013, p. 535), the auto-photographical/photo elicitation revealed familiar sources of meaning in life, but also revealed ‘unique paths’ to these well-known themes.

Out of school meaning in life

In their exploration of meaning in life out of school, again students gravitated towards relationships mainly with family, friends, and pets (Fig. 4). Twelve sources of meaning were revealed: (1) sport, (2) family, (3), pets, (4) friends, (5) nature (6) the beach, (7) travel, (8) religion, (9) hobbies, (10) music, (11) food, and (12) miscellaneous. As revealed in previous research when exploring meaning in life (De Vogler & Ebersole, 1980; De Vogler & Ebersole, 1983; Steger et al., 2013; Taylor & Ebersole, 1993), relationships, activities, and nature were all important sources. While activities have been identified previously as important sources of meaning, in this present study it was the biggest source of meaning in life. Again, the photo-elicitation process allowed sport/activities to be explored in more detail. Thus, while the love of specific sports was important (such as netball, cricket, soccer, Australian rules football, athletics), meaning in life was often attributed to; being part of a team; spending time with friends; providing an aspirational goal; and
The sources of meaning in life outside school, had similarities with the in-school meaning in life, in that the important things involved relationships and activities, such as sport, hobbies, and travel; but also localized sources were revealed, for example, a source of meaning in life quite often identified (8%) was the beach. Initially, this category was placed under nature, but given the number of students who were specific about the beach and why it was important (e.g., having fun, relaxing, stress-relief, quality time with family, exercise, activities like surfing, snorkeling, swimming and even described by one student as my second home); it was determined that this source was a distinct category Table 2.

While the coding method explored categories and subcategories, the thorough examination of the image and narrative, revealed that strong themes emerged from many of the student selections. For example, while many students chose sport, activities, extra-curricular commitments, travel, the beach, or nature as something that provides their in-school and outside school lives with meaning, quite often they identified that it was meaningful as they were able to share this experience with friends or family. As such, many of the images and narratives selected were even more focused on relationships than the initial categorization. Seventy percent of all images selected by students for outside school meaning, and 62% in-school meaning had direct references to the importance of relationships. Further, within these categories 39% of students outside school and 44% in-school, pointed out that the image selected provided them with support and a coping mechanism.

While it is difficult to analyze the inherent meaning of narratives on meaning in life sources, what became evident was that relationships with friends were deeper than simply providing good company or having fun together. While fun and the enjoyment of each other’s company were evident, the narratives often described relationships that were built on trust, loyalty, support, and being there for each other. Seventy-six percent of student narratives described their friends as being supportive or positively influencing relationships. While sixty-one percent of the 151 images, focused on friendships in school used the expression “they are always there for me.” While this may simply be a turn of phrase, the notion that their friends are “always there for them” may point towards friendships based on deep commitment and emotional support as well. That these students see these friendships as such a strong source of meaning in life and that these relationships appear to be “intense” even at the early stages of secondary, provide schools with much to reflect on during these students’ school journey.

To explore meaning in life sources in more depth, each narrative was analyzed and categorized into the three facets theorized by Martela and Steger (2016): Coherence, purpose and significance. Martela and Steger (2016) acknowledge that sources

| Main category | Sub-category | Definition |
|---------------|--------------|------------|
| Friends      | Friends based on support, friends based on fun/shared interests, friends in class, different types of friendships. | Any emotional connection, involvement, or association between the participant and another person(s) as identified by the participant. |
| Learning     | Favourite subject, academic success, aspirations for future, pride in performance, enjoyment of class, gratitude for opportunity. | Actively pursuing knowledge in school or the classroom. |
| Sport        | PE lessons, netball, cricket, cross country, dance, health and fitness, sport achievement. | An activity involving physical exertion and skill in which an individual or team competes against another or others. |
| Extra-curricular | Debating, choir, tournament of minds, performing arts, school productions. | Student activities connected with school and usually carrying no academic credit. |
| Digital technology | Laptops, calculators, mobile phone. | The use of current digital technology in everyday school-life. |
| Religion     | Faith, God, community, sharing ceremonial moments with family. | An identified specific set of beliefs and practices followed by the participants. |
| Teacher      | Favourite teacher, gratitude, support. | A person that teaches; especially, one whose occupation is to educate. |
| Miscellaneous | School pride, school community, living the school motto. | Any topic that does not fit into a main and sub-category; or a topic that was discussed by only one individual. |
| Physical environment (school) | Gymnasium, library, school oval, view of the beach, observatory, lockers, gratitude for quality of infrastructure. | Any specific location identified by the participant that is frequented often or holds special meaning. |
| Food         | Canteen, anticipation, mood changing. | Any nutritious substance that people or animals eat or drink or that plants absorb in order to maintain life and growth. |

Fig. 1. Meaning in school life: main categories and subcategories in participant's photographs.

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of meaning may be different to the actual experience of meaning but nonetheless contribute to one’s sense of meaning. Thus, the sources presented may not directly capture these young people’s emerging sense of meaning in life, but allude to what it is that shapes their views.

Table 3 identifies that for the majority of students (75%) meaning in life sources were focused on coherence that is, examining life through a lens of understanding. Sources that identified a clear sense of purpose for this group were considerably less obvious (23%), and further identifying a source of significance that “lifted life beyond the normal” was even less apparent (3%). Slight variations became apparent when exploring the facets in meaning in life for this student group from a school or out-of-school point of view. These variations occurred around purpose, whereby in-school narratives made up 28% of meaning in life sources, whereas for out of school this was only 17%. This is not surprising as school is often seen as the vehicle by which young people develop a sense of their own personal calling (Graham, Van Bergen & Sweller, 2015). However, for this student group most meaning in life sources were still focused on developing understanding of their experience (generally via relationships), rather than deriving clarity around the specific purpose of school. Finally, students rarely attached significance to events via a deeper sense of what the meaning in life source meant to them. Those that did, focused mainly on holidays and how

| Main category | Sub-category | Definition |
|---------------|--------------|------------|
| Sport         | Playing football, soccer, netball, team, surfing, fishing, cricket, hockey, dancing, keeping healthy, relieving stress, relaxation, relationships with team-mates. | An activity involving physical exertion and skill in which an individual or team competes against another or others. |
| Family        | Family, mother, father, brother, sister, grandparent, cousins, love, care, support, sharing experiences. | Any emotional connection, involvement, or association between the participant and another person(s) as identified by the participant. |
| Pets          | Dogs, cats, rabbits, fish, snakes, taking responsibility for pets, friendship with pets, non-judgemental pets. | Domesticated animals that are typically kept in households. |
| Nature        | Parks, rock formation, cliffs, gardens, flowers. | All elements of the natural world. |
| Travel/holidays | Sharing good times with family and friends, excellent memories, gratitude, learning new things, nature and the outdoors. | To make a journey - typically of some length. |
| Religion      | Faith, God, Community, support, sharing experiences with family. | An identified specific set of beliefs and practices followed by the participants. |
| Music         | Playing music, singing, listening to music, being a fan, enjoying with friends and family, aspiration. | An art of sounds that reflects ideas and images through elements of rhythm, melody and harmony. |
| Hobbies       | Drawing, photography, journaling, art, shopping, collecting cards, gaming, riding motorbikes, bike riding, remote control cars, reading, pride, achievement, aspiration, escape from technology. | Any activity that is pursued for pleasure or relaxation. |
| Home          | Pool, protection, safety. | The place where one lives permanently. |
| Friends       | Relationships, support, fun times, great activities, sharing interests. | A person that one has a bond of mutual affection with, typically not related or romantically involved with. |
| The beach     | Beach, family at the beach, friends at the beach, nature, outdoors, relaxing at the beach, sunset at the beach, having fun at the beach, relieving stress at the beach, swimming, caving, surfing, snorkelling, sea life, floating on the water, taking dogs onto the beach, smell of the beach. | A pebbly or sandy shore – typically by the sea between high and low water marks. |
| Food          | Cooking, sharing good times with family, mood changing, fun with friends, gratitude, enjoy different cultures. | Any nutritious substance that people or animals eat or drink or that plants absorb in order to maintain life and growth. |
| Miscellaneous | Fun, enjoyment. | Any topic that does not fit into a main and sub-category, or a topic that was discussed by only one individual. |

Fig. 2. Meaning in life outside school: main categories and sub-categories in participant’s photographs.
important these were to them and their families, but some individuals were able to appreciate both their school and outside life at a deeper level than other peers, for example:

This is a photo of my laptop and my work. It brings meaning to my life because it reminds me of how hard my mum and dad work to get me a good education.

**Self-reported happiness**

The participating students also rated their happiness using a self-reported faces scale. The faces scale was originally used by Andrews and Withey (1974, 1976) and was seen as a simple but reported faces scale. The faces scale was originally used by Andrews and Withey (1974, 1976) and was seen as a simple but reported faces scale.

| Main category          | Number (%) of participants submitting matching photograph theme |
|------------------------|---------------------------------------------------------------|
| Friends                | 144 (42%)                                                     |
| Learning/Education     | 102 (29%)                                                     |
| Physical environment   | 36 (10%)                                                      |
| Sport                  | 29 (8%)                                                       |
| Extra-curricular       | 10 (3%)                                                       |
| Miscellaneous          | 7 (2%)                                                        |
| Religion               | 6 (2%)                                                        |
| Digital technology     | 5 (1.5%)                                                      |
| Teachers               | 3 (0.5%)                                                      |
| Food                   | 2 (< 0.5%)                                                    |
| Family                 | 1 (< 0.5%)                                                    |
| Self                   | 1 (< 0.5%)                                                    |

For the adolescent participants in the current research, friends and learning appeared critical in providing meaning in life in-school. Outside of school, sport and family were identified as providing the most meaning in life. While these findings align with previous research, the minds-eye approach provided the opportunity to break down these categories into individualized accounts of meaning in life, for example, school friendships built around loyalty, trust, support or shared interests. While Steger et al. (2013) identified relationships amongst college students as being similarly important, a focus on values and possessions was more evident in their study and perhaps represented markers of life maturation and world weariness thankfully not evident for the students in this current study.

So what do the findings from the present study reveal about the young people whom agreed to participate in the present study? The students reflected earnestly on what sustains their lives in their first year of secondary school and this communicated an emerging view

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| Category (photo example) | Sub-category | Example of student thoughts |
|-------------------------|--------------|-----------------------------|
| Friends                | Constant, loyal, caring, like-family, trust, happiness providers, fun, joy, support. | This is a photo of my friends and I. They give my life meaning because they are there for me in ways that family can't be and they always make me smile. |
| Learning               | Learning, knowledge, digital technology, old and new school learning approaches, something new, support, future, awareness, aspiration. | This is a photo of my school work. It gives my school life meaning because it means I can learn something new every day, and this will help me get into a good university. |
| Teachers               | Friendly, fun, social side of learning, classmates, quality teaching, subject enjoyment, excellent grades, gratitude, personal pride. | This is a photo of my favourite teacher Mrs P. She is so nice and we always have a lot of fun in her class. She teaches humanities very well and the grades I get give my life meaning. |
| Extra-curricular       | Opportunity, growth, success, self-confidence, friendship, pride, happiness, determination. | This is a photo of the opportunities [school name] provides. It gives my life meaning because the opportunities they provide lets me spread my wings throughout the college. Because they set me up to succeed it makes me feel good about myself and my friends, makes me feel good about my school and makes me feel happy that I've done something I've succeeded at. |
| Digital technology     | Technology, digital tools, school work, commitment, reminder of efforts, awareness of what is required at school. | This photo of a computer gives meaning to my life in school because it reminds me of how much work I have done on it. |
| Religion               | Faith, Jesus, strength, faith journey, decisions, judgement, support, wisdom, guidance. | This is a photo of things that represent my faith. My faith gives my life meaning because it keeps me strong and on the right track in life. |
| Physical aspects of school | Organisation, life skills, awareness of personal strengths, support, discipline. | This is a photo of my locker. It gives my life meaning because a tidy workspace helps me focus at school and always gets me to classes on time. |
| Food                   | Anticipation, gratitude, awareness of the little things. | This is a photo of our school canteen. This gives my school life meaning because I look forward to the Tues and Fri when I get money for the canteen. |
| Miscellaneous          | Nostalgia, honesty, growing up, transition, meaningful possessions, pride. | This is a photo of my school bag. It gives my school life meaning because when I get it I feel so much older because I was now in high school. |

Fig. 3. Meaning in school life: main categories and sub-categories in participant's photographs. [Colour figure can be viewed at wileyonlinelibrary.com]
on personal independence and awareness that support in a variety of forms was vital. More than this, it revealed that many were able to articulate the school learning journey they were on via several sources, namely, the enjoyment of a subject or specific class, a desire for academic success, aspirations for the future, general pride in performance, the enjoyment of being in a specific class, and gratitude for the opportunity that school presented. Further, the students revealed that their friendships both in and outside of school even 1 year post primary school were perhaps deeper than educators imagine. While family provided many with a great sense of meaning in life (invariably these students’ narratives were built around love and shared experiences), when describing friends, they used expressions such as being constant, loyal, caring, family-like, trustworthy, happiness providers, joyful, and supportive. Students consistently revealed that their friends were mentors and guides. For example, one participant stated: “this is a photo of my friends, they give my life meaning because they are always there to help me and inspire me to do great things. They are positive people who don’t bring me down - they make me feel better about myself”. As to whether this strength of connection between friends is deeper now than at other times as a consequence of online activity outside of school is conjecture, but it becoming clearer that the internet plays a critical role in the formation of close relationships for young people (Borica, Bina, Keller, Gilbert & Begotti, 2015; Lenhart, Purcell, Smith & Zickuhr, 2010).

Martela and Steger’s (2016) theorizing around the three facets of meaning in life: coherence, purpose and significance, presented an interesting way to examine the student meaning in life sources and narratives both in and outside school. Invariably, students meaning in life sources pointed towards developing coherence of their life via a love of sport, music, drama, travel, books, the beach and more often their strong connections with friends and family. A belief for these young people that their sources of meaning in life made sense of their sometimes-confusing worlds was apparent, for example, “This is a photo of me and a friend [sic]. It gives my school life meaning because friends make me happy which is a huge help when you are in a tough time.”

Additionally, this present research established on a small scale that a clear sense of purpose was emerging for some students. While still being predominately focused on making sense of their lives, some students had clarity around what provides purpose in their lives even in early adolescence. For example, in this instance a student reflects on a national gymnastics title and draws upon why this provides her with meaning in life: “It’s a life commitment to me and to be completely honest my life so far has revolved around it.” In recent research that explored the connections between life events (identified as the singular most personally meaningful event of the last fortnight) and meaning in life, Martela, Ryan and Steger (2018) explored factors that are aligned to life significance and purpose. They found that specific needs satisfaction and positive affect associated with the event explained a significant part of variance for purpose in life (70%) and significance in life (60%). Thus, it is worth speculating that some of the positive narratives described by the students in this research may be important in developing longer-term meaning in their lives.

What also emerged was that purpose appeared to be more associated with school than out of school. Hence, schools should appreciate while most students are looking to make sense of their lives, some (even in their first year of secondary) appear to have clarity around a bigger picture and are beginning to be driven by strong motivators. It would be worthwhile comparing the student’s meaning in life source narratives with the college students in Steger et al.’s (2013) minds-eye research. Although the meaning in life sources were similar in Steger et al. (2013), as they were college students it would be understandable that their narratives reflected a clearer sense of life purpose.

Students within this research also completed a self-reported happiness faces scale to determine if there was any connection between meaning in life sources and overall happiness. There was no statistical evidence to suggest that students who selected specific meaning in life sources were happier than others. Nonetheless, given 90% of the participating students self-selected that they were happy most of the time and most in-turn chose relationships in one form or another as a meaning in life source, is indicative of the influence of friends, team-mates and family towards wellbeing (Holder & Coleman, 2008; O’Rourke & Copper, 2010).

**Limitations and future research**

Some limitations with respect to this current research are identified. This study draws on a limited pool of participants and as such represents a snapshot of a group of same-aged individuals from similar SES backgrounds. The school population was from a reasonably homogenous ethnic background, and therefore what provides meaning in life to these individuals may not reflect the growing diversity of the Western Australian metro and regional population. Further, the schools’ close proximity to the beach, student access to quality infrastructure (such as a new gymnastics, library, performing arts center) and the school’s commitment to pastoral care and positive education, identify that these factors may have impacted on the selection of the student’s meaning in life categories (Prager, Savaya & Bar-Tur, 2000).

In terms of meaning in life sources, the choices made by students at school may have impacted on those identified outside
of school, although no strong patterns emerged. There were examples of students selecting friends in both environments, but more often students identified friends in school, and sport and family outside school as providing *meaning in life*. As discussed, many students selected sport as an outlet to connect with friends, rather than the love of the sport itself. It could be argued that these individuals were selecting friends both *in-school* and *out-of-school* as providing *meaning in life* further highlighting their importance.

Finally, research examining similar schools in regional or single-sex settings; those in lower SES metro locations, or regional and remote schools may have provided a greater diversity of *meaning in life* sources. Additionally, schools in a variety of international locations; schools that do not run positive education programs, and of course researching students from different age groups, would add to these current findings and provide a deeper contextualized awareness of *meaning in life* in and outside of the school environment.

| Main category | Sub-category | Examples of student thoughts |
|---------------|--------------|-----------------------------|
| Sport         | Netball, football, cricket, athletics, fun, helpful, fitness, exercise, friends, team-mates, meeting new people, variety of experiences, fulfilling, satisfying. | This photo represents netball. It gives my life meaning because it is fun and helpful. The people you get to meet and the things you get to do make it meaningful. Without netball my life would be uneventful. |
| Family        | Love, emotion, sharing experiences, nature, travel, journey, quality time, being together, brothers and sisters, mum, dad, Australia, time away from school. | This is a photo of my family at a waterfall when I went around Australia. They give my life meaning because I love spending time with them as they make me happy, laugh, cry and have fun. |
| Pets          | Love, exercise, fun, responsibility, care, family, nature, awareness, emotion, siblings, companionship, closeness. | This is a photo of my dog and I. She gives my life meaning because I love her and love walking, playing and caring for her. She is like a sister to me. |
| Beach         | Nature, relaxation, fun, sense of place, outdoors, swimming, playing, enjoyment, stress release, security, home. | This is a photo of the beach. It gives my life meaning because the beach is my second home. I can relax and have fun at the beach and always will. |
| Hobbies       | Art, self-expression, pride, self-confidence, reflection, past-time, creativity, outlet for stress. | This is a photo of some of my artwork. This gives my home life meaning because it gives me a hobby that I’m good at and an outlet for my thoughts. |
| Friends       | Loyal, caring, trust, providers of happiness, sharing fun experiences. | This is a photo of me and my friends - they give my life meaning because they make me happy and never leave me behind. |
| Nature        | Outdoors, open-spaces, beauty, life experiences. | This is a photo of nature - it gives my life meaning because it reminds me of the beauty in life. |

Fig. 4. Outside of school: main categories and sub-categories in participant's photographs. [Colour figure can be viewed at wileyonlinelibrary.com]
While acknowledging these limitations it is important to recognize that this current research provides the first glimpse of the sources of meaning in life for young Australians in and outside of school. The methodology used in the present study was aligned to the earlier methods of Steger et al. (2013, p. 537), and as such provides further evidence towards an awareness of new variations on larger themes in life meaning that are “bottomless yet meaningful.” The rich data provided by the narratives points towards Schnell’s (2014) discussion that there is a fourth dimension of meaning in life, namely; being a part of something bigger. While Martela and Steger (2016, p. 541) suggest Schnell’s assertion around belonging might be better understood as a strong source of meaning rather than a “facet of meaning,” it was not difficult to see how being connected whether through friendship, sporting clubs, families

Table 3. Student meaning in life sources categorized by Martela and Steger's (2016) three facets of meaning in life

| Coherence | Purpose | Significance | Total |
|-----------|---------|--------------|-------|
| 234       | 95      | 7            | 482   |
| 248       | 54      | 11           | 149   |
| 149       | 18      |              | 639   |

Table 4. Percentage of respondents within each category of the Faces Scale

| Score | Respondent Group 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-------|--------------------|---|---|---|---|---|---|
| Happiness (F) | 0.0 | 0.0 | 0.0 | 9.2 | 34.2 | 44.7 | 11.8 |
| Happiness (M) | 0.3 | 0.0 | 0.0 | 7.1 | 32.6 | 52.0 | 8.1 |
| Happiness (Tot) | 0.0 | 0.0 | 0.0 | 8.0 | 33.3 | 48.8 | 9.8 |

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and natural elements was a constant thread of thought that emerged from this research.

CONCLUSION

There are three directional themes emerging from this current study. First, as with Steger et al. (2013) what may emerge from research such as this is that secondary students, via practical interventions (such as the minds-eye process) and accompanying teacher-led discussions, can develop a greater appreciation of what provides them with meaning in life. This greater appreciation of personal meaning may allow them to reflect on and appreciate what is sustaining them at critical points in their lives and potentially provide added resilience to the challenges that life inevitably presents (Martela & Steger, 2016; Thompson et al., 2003). That the self-selected student images in this research were used to create an installation on meaning in life for the wider school community, further reveals the ways schools can reinforce a commitment to positive education and improved mental health. Second, while students at early secondary are still developing their understanding of the world they live in, in-school and outside-of-school experiences beginning to establish a clearer sense of purpose in their lives. Thirdly, practical research undertakings such as this may provide schools with a deeper awareness of what is significant to their students throughout their secondary years and what it is that makes their “life worth living” (Martela & Steger, 2016, p. 541). In appreciating their students more acutely, schools can tailor intervention programs, and enhance existing mental health strategies more accurately.

The current research provides further evidence of the variety of sources of meaning in life for young people, and reinforces the awareness that friends, family, team-mates and relationships in general are at the core of their existence. As with all research that provides a voice for young people, the challenge for schools and society are to appreciate its genuineness and respond in kind to its message. All of us as parents, relatives, educators, coaches, and friends can appreciate this simple, but powerful message from one of the students in the research:

This is a photo of my friends – they give my school life meaning because they care for me, they are a lot of fun to be around, they make sure I’m OK.

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