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## **Discourse Community Collocations and L2 Writing Content**

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### Abstract

Taking the position that writing can be an important skill to foster knowledge building pedagogy, this article explores vocabulary as a supportive tool for this purpose. Having this in mind, a compilation of conceptually loaded vocabularies pertaining to seven discourse communities was developed, two of which were given to a group of L2 writers to investigate the implications of phraseology for content richness in foreign language writing. Sixty-six essays composed by 33 language learners preparing for two tests of English for General Academic Purposes, namely IELTS, and TOEFL, were investigated before and after receiving these concept-carrying lexical items. The study revealed that novice writers of academic essays could enhance the quality of essay content with the help of vocabularies which carry concepts and ideas. Retrospective interviews using stimulated recalls indicated that EFL writers had virtually no access to vocabularies needed for presenting most of concepts and believed that these lexical items would help them write better. So practical are these collocations for both making up content deficiency in academic writing and meanwhile assisting learners in broadening their topical knowledge scholarship that syllabus designers and EFL instructors can utilize them for higher pedagogical yields.

Keywords: content richness, corpus, discourse community collocations, L2 writing

## 1. Introduction

Knowledge building theory encourages important skills such as collaboration, learning how to learn, and knowledge construction in current educational contexts (Bereiter, 2002). The main accent of this theory that has been well embraced by L2 researchers specializing in children's literacy development and essay writing has fallen on learners' knowledge transformation through encouraging reasoned thinking and advancing what they already know (Fulkerson, 2005; Ryshine-pankova & Byrnes, 2013; Wells, 2000). The explicit pursuit of idea development brings pedagogy into much closer alignment with creative knowledge work as undertaken at professional levels (Scardamalia & Bereiter, 2006). This educational ambition will be encouraged through knowledge-building discourse by which students will show commitment to progress through discussions devoted to sharing information

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and venting opinions, to seek common understanding, and to expand the base of accepted facts along with persuasion and evidence.

Two types of conceptual insufficiency are usually seen in students' writings: occasionally learners know the concept without any access to the respective word in L2 or they know neither the concept nor the lexical item. Schoonen, Snellings, Stevenson and Van Gelderen (2009) propose Inhibition Hypothesis, which predicts that the high demands of linguistic dimensions of FL composition will draw upon resources and inhibit attention to conceptual or ideological perspectives of FL writing, such as content elaboration, monitoring and higher-order revisions. This scant attention has also been detected in writing teachers' discourse which suffers from a disproportionate share of *ideational talk*, by which teachers introduce concepts, ideas, and argument, compared with the dominant micro-episode *linguistic talk* dealing with vocabulary, grammar and other related features (Aghajanzadeh & Hemmati, 2014). These two studies simply insinuate scant resources available to novice L2 writers to enrich their writing with quality contents and creative ideas.

Sifting through several recent studies on lexical bundles (Chang &Kuo, 2011; Cortes, 2013; Eriksson, 2012; Flowerdew, 2013; Salazar, 2014), it can be understood that they are mostly handled as a medium to express concepts and ideas in a manner that is aligned with community expectations. In a study on interdisciplinary expressions used in 15 academic disciplines, for instance, it was concluded that they could help novice academic writers present clear forms and functions while writing several parts of research papers such as literature review, results, and discussion (Maswan, Kanamaru&Tajino, 2013). Textforming and organizing properties of lexis have significantly been accommodated in L2 writing studies but the concept forming potential of lexical items keeps a low profile in publications.

As Schiro (2008) posits, education should allow a person to become a responsible member of the community through creating social awareness in specific and in general sense. Taking Freirean approach to language education into account, we can speculate that the most important criterion for the choice of lexical items is that they must have the potential to confront the social and cultural reality in which the people live. Vittoria (2014) finds this approach as a contemporary thrust of pedagogy inasmuch as learners will be prompted to discuss the existential situation of the vocabularies and their relationship with the reality they signify. Underscored in several distinguished studies for their importance to second language writing, lexical items have received scant attention for their knowledge-building potential. This study, thus, aims to explore whether vocabularies can be used as concept forming elements to fulfill this compelling vision forforeign language writing.

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## 2. Literature

AgustínLlach (2011) sees a mutual relation between vocabulary and writing. Writing practice, on the one hand, contributes to the development of vocabulary. On the other hand, lexical performance is a good indicator of composition quality and communicative success of the text. Using a reference corpus to assess the collocational value of L2 bigrams in a longitudinal survey. Bestgen and Granger (2014) indicated the important role phraseology plays in L2 writing development: the more usage of collgrams which combine lexis and grammar, the higher quality of text produced by ESL writers. Given that a lexical corpus should be employed for academic English pedagogy, Flowerdew (2015) notes that students' level of language proficiency should be taken into account. She suggests that frequency account should not form the base of findings, and learnability and teachability of lexical items are more important factors that compilers should consider. Another significant matter which should be considered is the incredible range of topic variation in any corpus of texts and the choice of specific words that have received scant attention applied linguistics literature. Miller and Biber (2015) believe corpus studies should not solely pursue the goal of generalizing to a discourse domain. Internal representativeness achieved through measures of lexical richness in a corpus which rest on the significance of words should also be taken into account. These statements do not cast discredit on frequency-oriented corpus studies but emphasize that students can utilize a collection of lexical items when they are goal oriented and have potential usability in productive tasks such as composition writing. Hu and Nassaji (2016) in an investigation into implications of vocabulary learning tasks came to conclusion that learner engagement, instantiation, and productive generation included in Technique Feature Analysis (Nation & Webb, 2011) are important features which help vocabularies be learned better.

According to the revisited model of communicative competence put forward by Celce- Murcia (2007), context-specific lexis and collocational knowledge which are represented in terms of *formulaic competence* can be utilized to satisfy the basic requirement of *sociocultural competence*, i.e. background knowledge of discipline-specific readership and community custom. However, intercultural dialogue or communication and exchange of ideas should not be the ultimate purpose of language teaching - but something more than this: involvement in civil society beyond the local level should be what foreign language instructors pursue (Byram, 2008). Moral abilities, participatory capabilities, intellectual skills, and globally common core values and concerns, are to be represented in EFL materials for the purpose of citizenship education. Byram (2008) has a high opinion of constructive exchange of expressions to

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gain international social cohesions. Seeing explicit interrelationship between social systems, vocabularies, and concepts, Loewenstein and Ocasio (2002) believe that organizational actions and changes are constituted and understood through vocabularies.Larson (2011), likewise, subscribes to the view thatmetaphorical structures used by environmentalists influence readers' perception of the environment and encourage their sustainable presence on earth. Given this functional significance of lexicons, recognized in the fields of management and ecology, they can raise readers' awareness of concerns articulated by several discourse communities. Swales (1990) adhering to social constructionism sees writing as a social act by which discourse communities with a set of public common goals have to manifest. A discourse community with a threshold level of members also has a specific set of vocabularies which its size is not fixed and gets larger by its member. It has been supported that frequent lexical combinations allow writers enter a given community, and connect appropriate use of these compounds to communicative competence in a field of study (Chen & Baker 2010; Hyland, 2008).Hyland and Tse (2007) do not have a high opinion of general academic vocabulary and argue that L2 students should engage with the actual use of lexical items in particular contexts.

The exchange of thoughts and insights between studies on English language learning andteaching composition has caused many experts to accept the interdisciplinary natureof writing in which social, cultural, linguistic, and cognitive faculties are seriously involved (Leki, 2003).We need to focus on academic vocabulary at college level since it affords students "a set of options to refer to those activities that characterize academic work, organize scientific discourse and build the rhetoric of academic texts" (Paquot, 2010, p. 28).Thonney (2011) believes community-oriented instruction is more likely to concentrate on reality of writing through engaging with social and communal issues, making decision, Planning, thinking critically, finding readership, and solving problems. Added to these skills is an awareness of discourse specificity and register distinctiveness of words in writing, noted by Schmitt (2010), which makes student writers communicatively competent in a discourse community.

Writing instructors may find themselves confronted upon considering abovementioned features in writing instruction but Fulkerson (2005) claims that student writers " are presumed to be neither cognitively deficient nor linguistically impoverished"; thus, several discourse communities can be introduced to them (pp. 677-678).According to Swales (1990) *discourse community* is not confined to only academic disciplines but can cover public domains such as family or sport clubs which have shared conventions. Unlike *speech community*, it is not determined geographically and does not seek for

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sociolinguistic grouping, but for sociorhetorical grouping instead that focuses on functionality through commonality of concerns and goals. Thonney (2011) sees no problem andbelieves ,despite the variety, student had better be provided with general knowledge of academic discourse regarding disciplines.Harmon and Hedrick (2005) argue that content area vocabularies are labels for important concepts which ease the understanding of discipline-specific texts.L2 writing can be employed for shaping and expressing content as it taps into the extensive capacities of languages as semiotic systems (Biber, Gray, &Poonpon, 2011).Ryshina-Pankovaand Byrnes(2013),impressed by systemic functional linguistics,go along withthis view and find writing as a knowledge construction medium to develop advanced L2 literacy. In particular, in their study they found the positive implications of grammatical metaphor and evaluative expressions for the conceptual refiguration of content and the textual configuration of that content as knowledge.

Idea generation appears as an integral element of writing that is almost considered by cognitive models of this language skill (Galbraith, 2009). Despite receiving scant attention compared with other cognitive processes in writing, developing new ideas can contribute to writing success (Alamargot&Chanquoy, 2001; Galbraith, 2009).Crosslly, Muldner, and McNamara (2016) assert that idea generation leads to higher quality texts in students' writing. This important part of writing is interpreted in terms of fluency, flexibility, elaboration, and originality. Fluency refers to the number of ideas but flexibility is accounted when ideas are different. Expansion and novelty of ideas are estimated through elaboration and originality respectively, as they clearly suggest.

... essays that contain greater elaboration and more ideas are scored more highly and that idea generation is best predicted by linguistic features related to the number of ideas, the uniqueness of ideas, and coherence between those ideas at the global level. (p.346)

Crossley and McNamara (2016) strongly claim that there has been no study yet to investigate the implications of linguistic features such as vocabulary for idea generation in writing. All things considered, this study aimed to develop a lexical compilation to meet this importantly perceived need in language teaching and learning and consequently see its effects on quality of content delivered in foreign language writing.

## 3. Method

The present study was conducted in two phases: the first one was germane to developing the lexical compilation associated with conceptual collocations; and in the second phasewriting quality of a group of EFL writers who received a limited set of collocations was investigated.

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## 3.1 Discourse Community Collocation Compilation

The compilation included 996 collocations related to seven subject areas: health, crime, the environment, education, family and social life, media and entertainment, and work and business. Interestingly, 981 of them were twoword bundles. General interest magazines, mobile news applications such as News Digest and Play Newsstand were the main sources of collection.Some vocabularies may seem subject-specific but they are a part of social discourse appearing as a conventional variety in public discourse areas such as general interest magazines. The entries of advanced English dictionaries were also looked up for nouns which shared certain conceptual and collocational properties. They were also used to testify the suitability of words for the collection because two criteria had to carefully be satisfied to eventually include the lexical items in the compilation: First, they had to be in the noun category of dictionary entries. Second, they had to have no specific labels such as technical, idiom, and colloquial.

To have a better understanding of thevocabulary compilation, two important issues should be noted: Firstly, among many classifications provided for lexical bundles the collectionbuilt up for the current study can be sorted into *topic*, one of five subcategorizations of research-oriented bundles, proposed by Hyland (2008). However, this subcategorization merely deals with technical terms and, as Salazar (2014) notes; its application is confined to research objects and procedures. Nation (2001) subscribes to the view that there are degrees of 'technicalness' depending on how limited a word is to a specific area. Secondly, the compilation for the current study was not developed in regard to frequency and semantic opacity-which are two typical features considered for lexical bundles studies- and discipline or subject specificity, which is the main criterion for content vocabularies in content based instruction. This amounts to saying that the pedagogical function of two-word vocabularies in carrying ideas and concepts was the only criterion to be metfor compiling the intended lexical items and no specific model was taken into account for this purpose.

Collocations have been seen as a group of words that belong together. Some of them are common occurrence of some words but others shape a single unit whose meaning cannot be clearly understood by its components (Nation, 2005). This definition best suffices to consider the vocabularies of the collection asdiscourse communities collocations (DCCs), which is an umbrella term going beyond any specifications such as technical or academic vocabularies. It should be noted that these vocabularies are distinct from other collocations as the pivot and collocates cannot be easily distinguished and both parts carry a concept within a sentence.

3.2 Experiment

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Thirty-three Iranian language learners who intended to sit for English proficiency tests, namely IELTS and TOEFL, were the participants of the study. They were studying academic Englishin two separate language institutes which had accommodated them at B2 level of CEFR. They were typically supposed to write two essays per week. Sixty-six essays of them (two essays of every participant) on two issues (family and social lifeand the environment)were collected for pre-test rating. It is worthy of note that the average score of two essays for each participant was considered for data analysis. Accordingly, they received respective discourse community collocations (DCCs) for further comparative analysis(See Appendix A). Every vocabulary was provided in English sentencesaccompanied by Persian translation prior to the writing session. All attempts were made to answer the formulated research question: Do L2 learners deliver richer content in their essays through employing discourse community English academic collocations? Consequently, the following null hypothesis was posed: There is not any significant difference in content quality of essays written before and after usage of discourse community collocations.

To draw a robust conclusion it was decided to employ two different rating scales in which content is represented differently. Content knowledge as a major component of task representation was the only assessment criterion. Two raters with an interrater reliability of .87, estimated through Cronbach Alpha, were asked to compare the quality of content student writers set forth before and after studying discourse community collocations. This variable was rated from 1 to 4 according to the scoring rubric developed by Eckstein, Chariton, and McCollum (2011). In their rubric content embodies:

1-an effective statement of purpose that is argumentative, not descriptive

2-verifiable, current, and relevant details

3-insightful commentary

4-well-developed ideas for the fully understood issue

ESL Composition Profile, developed by Jacob et al. (1981), was used as another scoring rubric by which content is scored according to knowledge of writers, significance and authenticity of ideas, development of thesis, and relevance. It is worthy of note that this assessment tool was also employed to know the degree of the effect DCCs had on other writing variables as a secondary concern.

Language learners receiving the intended vocabularies for writing improvement underwent a retrospective interview using stimulated recalls. The semi-structured interview protocol developed by the researchers originally included eight open questions whichshrank to five major questions: a) Had you

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known the concept before vocabularies were given to you? b) Had you known the concept but not the word? c) Did theyhelp you organize your thoughts with interesting topic sentences? d) Did they help you extend your arguments in writing? e) Did they help you extend your wording length? Students were debriefed on discourse communitycollocations of two subject matters they had used in their essays and their answers were accordingly coded and presented in percentage. Students were asked to express their opinions about DCCs used in their own essays for the first two questions but other three questions were responded generally.

### 4. Results

In the experimental phase, the effect of DCCs on content quality in students' essays came under close examinationthrough two different writing assessment scales. Table 1shows the content score mean rise from 1.8 to 2.4 after introducing DCCs. T-test applied to two paired samples proved the rejection of null hypothesis and revealed that there was a significant difference in content quality of essays written before and after usage of discourse community collocations(Sig.<0.05).

It should be added that the average number of DCCsin two essays was 6.3, ranging from 2 to 10.

Table 1

| SUMM           | ÍARY  |                  | Alpha        | 0.05         |                  | Hyp Mean<br>Diff | 0            |              |
|----------------|-------|------------------|--------------|--------------|------------------|------------------|--------------|--------------|
| Groups         | Count | Mean             | StdDev       | Std<br>Err   | t                | df               | Cohen<br>d   | Effect<br>r  |
| Group 1        | 33    | 1.8636<br>36     | 0.5042<br>43 |              |                  |                  |              |              |
| Group 2        | 33    | 2.4696<br>97     | 0.4319<br>18 |              |                  |                  |              |              |
| Differe<br>nce | 33    | -<br>0.6060<br>6 | 0.5117       | 0.0890<br>76 | -<br>6.8038<br>9 | 32               | 1.1844<br>06 | 0.7689<br>46 |

T Test: Two Paired Samples

T TEST

|      | p-<br>value | t-crit | lower  | upper  | sig |
|------|-------------|--------|--------|--------|-----|
| One  | 5.41E-      | 1.6938 |        |        |     |
| Tail | 08          | 89     |        |        | yes |
| Two  | 1.08E-      | 2.0369 | -      | -      |     |
| Tail | 07          | 33     | 0.7875 | 0.4246 | yes |

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#### 2

As mentioned earlier, in addition to an academic writing assessment rubric, an essay writing assessment rubric generally used in EFL and ESL settings was used to draw a firm conclusion regarding the effectiveness of DCCs. However, other variables of the assessment rubric were also investigated to see through their change after students used the collocations in their writing. As Table 2 shows, Multivariate Paired Sample Hoteling's T-Squareusing Real Statistics Software Packrevealed that there was not any significant difference in overall writing scores of the group before and after receiving the collocations (F=2.8, Sig.>0.05).

Table 2 Paired Sample Hoteling's T-Square

| Ν  | df1 | df2 | F    | T2    | α   | <b>P-value</b> |
|----|-----|-----|------|-------|-----|----------------|
| 33 | 5   | 28  | 2.82 | 17.34 | .05 | .073           |

However, once inspected one by one independently, all variables except *content*proved unchanged. As table 3 shows, *content*significantly improved to mean score 23.5 from 18.4 (Sig.>0.05).

## Table 3

Multivariate Extension of Hoteling's T-Square

|              | Me   | an   | Te   | ~    |
|--------------|------|------|------|------|
| Variables    | Pre  | Post | T2   | Sig. |
| Content      | 18.4 | 23.5 | 8.12 | .001 |
| Organization | 13.2 | 13.5 | 1.81 | .061 |
| Vocabulary   | 13.3 | 13.2 | .93  | .092 |
| Language use | 17.8 | 17.7 | .67  | .234 |
| Mechanics    | 4.4  | 4.2  | .13  | .583 |

It is interesting to note that two new DCCs (*electronic piracy* and *pamper holiday*) were detected in students' writing which shows the dynamic nature of this lexical compilation.

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Each learner was asked to answer five questions regarding vocabularies they used from the collection. Excerpts 1 and 2 show the positive role served by DCCs in students' writing in that they found them useful in developing new ideas and extending the content.

## Excerpt 1

I knew half of concepts and ideas but I had 30 per cent of the phrases in English. I could make better ideas by them. I think some of them are difficult to understand or memorize even in Persian and need explanations to be remembered better. We can write more because ideas are ready. Best of all, we can simply show that we can write more academically with new ideas which are not similar to others.

## Excerpt 2

Some concepts were really interesting. Many of them were greek to me, about 70 per cent. So I didn't know the words too. Honestly, I learned several new things. They helped me a lot for better opinions I never had before. I could write much better topic sentences that our teacher always emphasize.

Despite employing a varied degree of DCCs, all 33 participants perceived them as a helping strategy to cope with serious writing setbacks. Detailed results of five questions related to stimulated recalls have been shown in Table 4.

Table 4

The average percentage for five questions of the interview

| Knowing the concepts | Knowing the<br>concepts but<br>not knowing<br>the word | Organization<br>of thoughts<br>with good<br>topic<br>sentences | Extension of argument | Wording<br>length |
|----------------------|--|--|-----------------------|-------------------|
| 81                   | 86   | 80   | 75                    | 55                |

Overall 81 percent of concepts were familiar to student writers but 86 per cent of them were *wordless* for them before having access to DCCs. Seventy five per cent of participants found these vocabularies beneficial for supporting the topic sentences or extension of arguments. Comparatively, more students (80 %) found DCCs useful when it came to their role in fluent presentation of content through creative topic sentences. About half of students had a high

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opinion of DCCs for their positive effect on essay length. In a word, they could write more when they had concept generators words at their disposal.

## 5. Discussion

The vocabulary collection complied for the current study aimed to build a bridge between word knowledge and world knowledge, which is considered as an integral component of intercultural communicative competence (Lambert, 1994). This statement may conflict with what those who favor a quantitative approach to lexical studies argue for. Brezina and Gablasova (2015), say, shy away from developing a corpus for the purpose of developing new ideas for speaking and writing on the pretext of rapid changes brought by modernity that may hinder identification of necessary ideas. However, it should be noted that highly frequent collocations which carry only linguistic functions cannot guarantee the quality of productive language skills. Thus, there was a need to develop a compilation or, moreprofessionally, acorpus to help language learners broaden their lexical scholarship through conceptual understanding of their perceived social reality.

The present study revealed that he language learners were almost conceptually aware but lexically under-resourced. Provided with discourse community collocations of the environment and family and social life, student writers could have access to vocabularies related to concepts of todays' life and concerns. Apart from vocabulary learning, they could broaden the world knowledge scope through DCCs. He and Shi (2012) argue that the prompt that need specific topical knowledge can be challenging for L2 writers in terms of quality and quantity of contents The interview cast light on the pressing need for these lexical bundles inasmuch as students expressed no reservation about their constructive implications for writing improvement in terms of content richness, organization, and wording length. It was observed students added two new collocations to the collection that suggests not only the dynamicity of itas the world is changing but also the heuristic faculty of learners when they are exposed to supportive materials. Upon learning vocabularies of specific community domain, students can raise their topical knowledge, which its role in foreign language writing appears crucial. This type of lexical sophistication may not lead to idea generation only when used in writing; accessibility and awareness of these collocations may also contribute to ideas development.

Kramsch (2013) asserts cultural materials in ELT have been affected by the globalized geopolitical landscape of 21st century which encourages common values, interests, and practices which unite members of several communities. This postmodernist approach to teaching culture engages students as participants who will not lose their identity but will experience social reality and see culture as a nation-free construct. Taking account of this approach,

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Wierzbicka (1992) believes that languages include lexical items which are related to shared social reality and moral values, and guiding principles and are central to human identity and civilization. These human concepts universals run contrary to ethnocentrism which seeks for cultural superiority. All things considered, vocabulary can be an integral component of language teaching to raise awareness of social realty and globally shared praxis.

The findings of this research have significant implications for writing practice in that language learners could be taught writing strategies intended to raise idea development. Use of sophisticated words, highly recommended by Crosslly et al. (2016) as one of the practical one to create new ideas in writing caused the essays to be judged as higher quality texts. It should be noted that as discourse community collocations bear close relation to world knowledge it may defy detailed assessment; all the more so because human raters cannot always develop reliable ratings on lexical items which are semantically identified in context (Crossley, Salsbury&McNemara, 2016). Notwithstanding this difficulty, instructors can give feedbackon DCCs either in writing conferences or in written comments so that student writers will appreciate their significance in writing.

## 6. Conclusion

The essence of the present study was distilled from social constructionism to link vocabularies up with foreign language writing. A collection of discourse community collocations was compiled to find out their effectiveness in content richness of L2 essays. They proved useful from participants' vantage point and could also assist them in writing better. These conceptually loaded terms, which carry and project concepts and ideas, may be considered as a new category of lexical knowledge or productive lexical richness, at the very least. This type of collocation could afford student writers a concomitant opportunity of an introduction to discourse communities and global citizenship. When 21th century language learners are believed to "think globally, act locally", learning such words can be a useful strategy by which language learners can make their way to ownership of their learning and hold global citizenship in the foreign language classroom.Global citizenship education helps students reflect upon globally shared values and develop core skillsthrough membership in a wider global community. Davies, Evans, and Reid (2005) encourage reflective education which prompts learners to give global obsessions thoughtful consideration. Global issues such human rights, poverty, and eco-unfriendly conduct can evoke a sense of solidarity and enrich the educational context with participatory skills and knowledge. Peaty (2010) insists on using global issues or acquiring sufficient knowledge of them in EFL to practice global citizenship. Hence it can be maintained that DCCs help students write to learn as well as

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learning to write. They can be of great significance to operationallymake the language classroom a meaningful venue to enhance cultural understanding of globally shared issues which has been emphasized by researchers (Borghetti , 2011; Moeller&Faltin Osborn, 2014; Witte, 2011).

Several suggestions can be offered, provided that the interest in discourse community collocations grows into a wider area of research and pedagogy especially by a corpus study. From a teaching perspective, form-focused reading and listening activities can spur students on to learning rich lexical items authentically and, in consequence, they can employ them in their writing. It is likely that DCCs accompanied by language tasks will motivate students to use them better. What is more, disproportionate presentation of facts and opinions can be a potential area of research by which researchers can look into whether DCCs can push students to use more facts and evidence in their writing as they may resort to authentic materials to understand and employ them more efficiently. Additionally, the small sample size of present study defied a correlational investigation or a truly experimental study, which can be a future concern to know whether the number of discourse community collocations positively correlate with or affect the quality of content and argument academic writers set out for their essays.

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Appendix A

| Appendix A                 |
|----------------------------|
| Carbon footprint           |
| Dust bowl                  |
| Water footprint            |
| E-cycling                  |
| Food miles                 |
| Desert greening            |
| Emission standards         |
| Green tax                  |
| Game reserve               |
| Endangered species         |
| Game warden                |
| Landfill gas               |
| Organic agriculture        |
| Urban renewal              |
| Rainwater harvesting       |
| Urban planning             |
| Air traffic                |
| Green power                |
| Light pollution            |
| Eco-tourism                |
| Fur farming                |
| Nature reserve             |
| Ethical consumerism        |
| Whales stranding           |
| Captive breeding           |
| Greenhouse effect          |
| Global dimming             |
| Food security              |
| Dump sites                 |
| Carbon credit              |
| Environment movement       |
| Emission camp              |
| Waste management           |
| Growth overfishing         |
| Test ban                   |
| Forest fire                |
| Alternative energy         |
| Alternative transportation |
| Forest clearance           |
| Traffic calming            |
| Biodiversity               |
| Renewable energy           |
| Virgin forest              |
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| Car pooling                   |
|-------------------------------|
| Oil spills                    |
| Ozone depletion               |
| Over-grazing                  |
| Global warming                |
| Urban sprawl                  |
| Concrete jungle               |
| Refuse disposal               |
| Heavy industry                |
| Preservation order            |
| Conspicuous                   |
| consumption                   |
| Acid rain                     |
| Crop rotation                 |
| Green belt                    |
| Fuel ration                   |
| Car tax                       |
| Carbon tax                    |
| Carbon sink                   |
| Wildlife safari               |
| White flight                  |
| Critical thinking             |
| Life choice<br>Coffee morning |
| Coffee morning                |
| Midnight feast                |
| Rush hour                     |
| Formative years               |
| Book crossing                 |
| Sandwich generation           |
| Quality time                  |
| Retail therapy                |
| Midlife crisis                |
| Dating agency                 |
| Class consciousness           |
| Pop culture                   |
| Simple living                 |
| Color blind                   |
| Sedentary lifestyle           |
| Boomerang child               |
| Ambiguity tolerance           |
| Video snacking                |
| Surrogate mother              |
| Kiddie cam                    |
|                               |

| Herd instinctFaith communityCamera shyIvory towerTower of strengthRetirement homeThe purse stringsCaptive audienceMarriage guidancePower dressingVideo diaryLove affairMaternal leaveFire drillArmchair travellingCommunity policingOnline activismRent rebateSocial climberFinishing schoolStreet childrenDigital divideNight spotHouse-warmingDiscretionary incomeLiving standardsSpeed datingCompulsive shoppingMaternal leaveCulture shockImmigration detentionGlass ceilingFashion victimCulture shockV-chipFood bankBook clubDress code         | TT 11                 |
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