TEACHER'S STRATEGIES IN TEACHING SPEAKING SKILL FOR ELEVENTH GRADE STUDENTS AT SMA BOPKRI 2 YOGYAKARTA

Devi Widyaningsih; Rr. Hasti Robiasih Universitas Sarjanawiyata Tamansiswa dheviie.widya@gmail.com; hasti@ustjogja.ac.id

Abstract

The objectives of this research are (1) to describe the strategies used by the English teacher of the eleventh grade students of SMA BOPKRI 2 Yogyakarta in teaching speaking and (2) to find out how the English teacher applies the strategies in teaching speaking. This research is descriptive qualitative in the form of a case study. The data were collected from observation and video recording of XI IPA 1, XII IPA 2, and XI Bahasa. The data were transcribed, identified, described, and analyzed by using theory of Shaun Killianof on strategies in teaching speaking. The results indicate that not all of the strategies in teaching speaking were applied by the English teacher. In XI IPA 1 and XI IPA 2, the teacher applied six strategies, while in XI Bahasa, the teacher only applied four strategies in teaching speaking. The teacher applied the strategies to help students become active during the learning process. The strategies could help the students become more active in the teaching and learning process, because the implementation of those strategies was sufficiently executed.

Key words: speaking, teaching strategies, teaching speaking

Introduction

One of the objectives of learning English in high school is to enable students to master language skills, one of them is speaking. Richards and Renandya (2002: 201) state that we use speaking to give instruction or to get things done. It means, when a student wants to convey his goal, it is necessary to speak in order that the purpose is delivered properly. Vocabulary, grammar, and pronunciation must be mastered in speaking. It is needed to make students fluent and accurate in speaking. Therefore, speaking is difficult for students.

To achieve the goal, it is necessary to have strategies that can help students speak well. Reiser and Dick (1996) argue that teachers can use different strategies of teaching to achieve teaching learning goals. In learning, teachers are given a chance to apply various teaching strategies that can help students speak well. The strategies were used based on students' needs and interests.

Teaching strategies in speaking activities are very important to overcome students' difficulties in speaking. Strategies in speaking can help students improve their fluency and accuracy in speaking. Each teacher may apply different strategies to improve students speaking skills. After practicing the strategies, teacher can see how the students' understanding in learning language and can benefit from an understanding of what makes learners successful and unsuccessful, and establish in the classroom a milleu for the realization of successful strategies (Brown, 2000:131). However, it is very important that the strategy applied is relevant with their needs and interests. In searching for the best model of teaching speaking strategy, the researcher decided to analyze strategies in teaching speaking used by the English teacher of eleventh grade students of SMA BOPKRI 2 Yogyakarta.

This paper tried to describe strategies used by the English teacher of the eleventh grade of SMA BOPKRI 2 Yogyakarta in teaching speaking and how teacher of the eleventh grade of SMA BOPKRI 2 Yogyakarta apply the strategies in teaching speaking.

Theoretical review Strategies in Teaching Speaking

According to Ur (1991:120), there are some characteristics of successful speaking, they are learners talk a lot, participation is even, motivation is high, and language is of an acceptable level. Success in speaking is the purpose of teacher in teaching speaking. It can occur if the strategies used by teacher are highly effective. Students' success in speaking depends on the teacher's way in teaching speaking. To find a suitable strategy in teaching is not easy, teachers should think about how the strategy will be implemented, is it appropriate to students' needs or not.

In the teaching learning process of speaking, teachers need speaking strategies to make the learning process work well and can help students speak well and correctly. Killian (2015) on *The Australian Society for Evidence Based Teaching* explained how to improve student's speaking skill needed most teaching strategies in class. Those teaching strategies are collected to fulfill the language learners' needs during learning English, especially in speaking. The strategies are as follows:

1. Setting Clear Lesson Goals

It is crucial that teacher be clear about what he wants students to learn during each lesson. If teacher cannot quickly and easily state what he wants the students to know and be able to do at the end of a given lesson, the goal of the lesson will be unclear. Clear lesson goalshelp teacher (and students) to focus every other aspect of lesson on what matters most.

2. Showing & Telling

Teacher should normally start lessons with show and tell. Put simply, telling involves *sharing information or knowledge* with the students while showing involves *modeling how to do something*. When teacher has cleared about what he wants students to know and be able to do by the end of the lesson, a teacher needs to tell them what they need to know and show how to do the tasks.

3. Questioning to Check for Understanding

Research suggests that teachers typically spend a large amount of teaching time asking questions. However, few teachers use questions to check for understanding within a lesson. However, a teacher should always check for understanding before moving onto the next part of their lesson. Techniques such as *randomized sampling*, *student answer-boards* and *tell-a-friend* are helpful.

4. Summarizing New Learning in a Graphical Way

Graphic outlines include things such as mind maps, flow-charts and Venn diagrams. Teacher can use them to help students to summarize what they have

learned and to understand the interrelationships between the aspects of what teachers have taught them. Discussing a graphical summary is a fantastic way to finish off teacher's show and tell. Teacher can then refer to it one more time at the end of the lesson.

5. Plenty of Practice

As said by Killian, practice makes perfect. Practice helps students to retain the knowledge and skills that they have learned while also allowing another opportunity to check for understanding. If teacher wants to harness the potent power of practice, he must ensure that students are practicing the right things. Finally, research shows that students do better when their teacher has them practice the same things over a spaced-out period of time.

6. Providing Students with Feedback

Feedback is the breakfast of champions, and it is the breakfast served by extraordinary teachers around the world. Put simply, giving feedback involves letting the students know how they have performed on a particular task along with ways that they can improve. Unlike praise, which focuses on the student rather than the task, feedback provides students with a tangible understanding of what they did well, of where they are at, and of how they can improve.

7. Being Flexible about How Long it Takes to Learn

The idea that given enough time, every student can learn is not as revolutionary as it sounds. It is also the central premise behind mastery learning, a technique that has the same effect on student results as socio-economic status and other aspects of home life.

8. Getting Students Working Together (in productive ways)

Group work is not new and teachers can see it in every classroom. However, productive group work is rare. When working in groups, students tend to rely on the person who seems most willing and able to the task at hand. To increase the productivity of the groups, teachers need to be selective about the tasks they assign to students and the individual role that each group member plays.

9. Teach Strategies Not just Content

Teachers can increase how well students do in any subject by explicitly teaching them how to use relevant strategies. When teaching children to read, teacher needs to teach them how to attack unknown words, as well as strategies that will deepen their comprehension. When teaching them Mathematics, you need to teach them problem-solving strategies. And, just as with content, you need to tell students about these strategies, to show them how to use them and to give them guided practice before asking them to use them independently.

10. Nurture Meta-Cognition

Many teachers believe they are encouraging students to use meta-cognition when they are just asking students to use strategies – strategies such as making connections when reading or self-verbalizing when solving problems. Encouraging students to adopt strategies is important, but it is not meta-cognition. Meta-cognition involves thinking about options, choices and results – and it has an even larger effect on student results than teaching strategies. When using meta-cognition the students may think about what strategies they could use before choosing one, and they may think about how effective their choice was before continuing with or changing their chosen strategy.

From the explanation above, it can be concluded that the strategies are very important in teaching and learning process. The right strategy can help the students in achieving the goals in speaking. Teachers must be able to apply the right strategies to help students in achieving the target language.

Research Method

This study is descriptive qualitative in the form of a case study which used observation to collect the data; it was done to observe the strategies employed by the teacher in teaching speaking. The research carried out from March to December 2017. This research was conducted at SMA BOPKRI 2 Yogyakarta. In analysing the data, the researcher did some activities, they were transcribing audio and video data into written form, identifying the utterances to find out the strategies used by English teacher, describing why the teacher used the strategies in teaching speaking, describing the strategies applied by the teacher.

Findings and Discussion Finding

Based on the data analysis, there were some strategies employed by the teacher. They are as follow:

1. The Strategies in Teaching Speaking Used by the English Teacher of Eleventh Grade Students of SMA BOPKRI 2 Yogvakarta

The classroom activity of all classes was presentation, as the result, the teacher did not always use all of the strategies.

Table 1.The Strategies in Teaching Speaking Used by the EnglishTeacher

NO	CLASS	STRATEGIES IN TEACHING SPEAKING	
1.	XI IPA 1	a. Setting clear lesson goals	
		b. Showing and telling	
		c. Questioning to check for understanding	
		d. Plenty of practice	
		e. Providing students with feedback	
		f. Being flexible about how long it takes to learn	
2.	XI IPA 2	a. Setting clear lesson goals	
		b. Showing and telling	
		c. Questioning to check for understanding	
		d. Plenty of practice	
		e. Providing students with feedback	
		f. Being flexible about how long it takes to learn	
3.	XI BAHASA	a. Showing and telling	
		b. Questioning to check for understanding	
		c. Providing students with feedback	
		d. Being flexible about how long it takes to learn	

2. The Application of Strategies in Teaching Speaking by the English Teacher of Eleventh Grade Students of SMA BOPKRI 2 Yogyakarta

In applying the strategies, the teacher was consistent. The strategies done by teacher in class XI IPA 1, XI IPA 2, and XI Bahasa were in the same way. There were six strategies applied by teacher:

a. Setting Clear Lesson Goals

In this strategy, the teacher told the goals of the lesson in the beginning of the teaching learning process. Before starting the lesson, she told students to learn what would the presenters explain.

b. Showing and Telling

This strategy was used by the teacher to tell the rules of the teaching learning process. It was also to share the information about the lesson.

c. Questioning to Check for Understanding

After the presentation, the teacher checked the students' understanding by let other students to ask question to the presenters and also help the students who could not ask with the correct sentences.

d. Plenty of Practice

The teacher gave enough spaces for students to practice their speaking by using presentation. She gave a chance to students to practice their speaking ability and pronunciation. The teacher helped students in correcting the mistakes, for example when the student could not read the word correctly, the teacher help student to read correctly or sometime the teacher asked other students to help him.

e. Providing Students With Feedback

In this strategy, the teacher gave feedback after the presentation. It was about language used, power point, and how to present. She gave comments and told the presenters' lacks, and also asked them to revise it.

f. Being Flexible About How Long It Takes To Learn

Teacher gave time to the presenters to practice their speaking and time to learn about what they discuss about.

Discussion

Based on the research finding, here are the descriptions of strategies used and applied by the teacher of class XI IPA 1, XI IPA 2, and XI Bahasa.

Table 2. The Description of the Strategies in Teaching Speaking Used by the English Teacher of XI IPA 1

TEACHING SPEAKING STRATEGIES	UTTERANCES	DESCRIPTIONS
Setting Clear Lesson Goals	T: Actually I already ask you to make or to prepare the question while your friend is presenting their presentation.T: Yes? Ok for theok please prepare the question while	Teacher asked students to focus on the presentation about. She gave time to students to learn while the presenters were presenting their work by prepare a question.

	presenters are presenting. You	
	may take a note, so we will not	
	waste our time. Understood?	
	S: Yes.	
	T: You will score your friends for	Teacher told the rule about scoring
	the presentation but for the file	before the presenter present her
Showing and	and the content from me. Jadi	work. She also gave score for the
Telling	nanti kalian scoring	content, it means that teacher
	presenternya. The score will	wanted to know the student's
	be from 75 to 95.	ability in report text.
	S: 30 to 85 pons in kg how much?	Teacher checked the students'
	S: dia nanya berapa 35 ampe eh 30	understanding by held question and
	ampe 85 pons dalam kg itu	answer session between presenter
	berapa?	and audiences.
	T: ok Cendy, soKevinhave you	
	everpay attention please!	
	Hellook have you ever count	
	the weight of your pitbull?	
	Ditimbang pakai timbangan	
	biasa udah pernah belum?	
Questioning to	P: Apa?	
Check for	T: Ditimbang pakai timbangan	
Understanding	biasa.	
	S: 1 pon itu 0.1453592 kali 30.	
	P: Kalau dikiloin tu	
	T: in English please!	
	P: in kg	
	T: in kg	
	P: 1 hundred	
	T: 1 hundred thousand e 1 hundred	
	kilos.	
	P: Maybe 20 to 30 kg	
	T: For the question, who wanna	-Teacher gave a chance for
	ask? Raise your hand please!	students to practice their speaking
	Who wanna ask related to the	ability by asking a question to the
	raja ampat? Raise your hand.	
	Siapa yang mau tanya? Havis	presenter.
	do wanna ask the question?	-Teacher choose a student to ask
Plenty of Practice	<u> </u>	question because, she wanted her
	Pay attention to her. Who wanna ask? One question.	students active in speaking
	Kevin maybe? Kevin?	activity.
	S: No, no, no.	
	T: Or Cendy, what is the question	
	Cendy? I'll count to 3 and I	

	will choose you if you don't	
	want to ask. 1, 2, 3, I want	
	Sekar, what is your question?	
	S: Me?	
	T: Yes	
	S: What make raja ampat different	
	from the other?	
	P: Maybe raja ampat haveapa	
	ya? Terumbu karang yang	
	masih bagus?	
	S: Best coral.	
	P: Best coral.	
	T: Sekar satisfying?	
	S: Yes.	
	T: ok. This one. Meriel how to	Teacher asked students to practice
	pronounce the word a-c-c-o-r-	the pronunciation.
	d-i-n-g?	-
	P: Archipelago	
	T: No	
	S: Archipelago	
	T: Anyone knows? Ok yang	
	archipelago sampe according	
	itu pronounce nya gimana?	
	S: əˈkɔː.dɪŋ.	
	T: Ok əˈkɔː.dɪŋ, and then for the	
	first?	
	S: archipelago	
	T: ar?	
	S: archipelago	
	T: one more	
	S: a:.ki'pel.ə.gəv	
	T: Excuse me Meriel, better to say	There are two feedbacks given by
	"next please when you want to	the teacher:
	move to the next slide.	-Language used
Provide Your	S: ok Miss.	-How to present
Students with	T: Meriel, it's not only reading the	r
Feedback	slide but you have to have the	
	interaction to your friends also.	
	Interact with your friends.	
	S: ok Miss.	
Being Flexible	T: ok thank you Meriel you may	Teacher gave enough time to the
about How Long It	close the presentation.	presenter to practice her speaking.
Takes to Learn	S: Thank you guys.	

From the table above, it could be seen that the teacher only usedsix strategies for XI IPA 1. Setting Clear Lesson Goals, teacher gave time to students to learn while the presenter was presenting their work by prepare a question. In the Showing and Telling, teacher told the rule about scoring. It was used before the presenter presented her work in the class. Questioning to Check for Understanding, teacher used this strategy after she gave feedback to the presenter. Plenty of Practice, in this part, teacher helped students to practice the pronunciation and gave a chance for students to practice their speaking ability by asking a question to the presenter. After the presenter presented her work, teacher used *Providing Students with Feedback* strategy by gave feedback to correct her work about language used and how to present. And in Being Flexible about How Long it Take to Learn, teacher gave enough time to students to learn while presentation.

Table 3. The Description of the Strategies in Teaching Speaking Used by the English Teacher of XI IPA 2

TEL CHING			
TEACHING		DEG CONTROL	
SPEAKING	UTTERANCES	DESCRIPTIONS	
STRATEGIES			
	T: so, the next presenter I want		
	you to be more ready and		
Sotting Clean	please prepare yourself best at	Teacher gave time to students to	
Setting Clear Lesson Goals	home. Tadi miss Ika bilang	learn and prepare the presentation	
Lesson Goals	kalian boleh latihan sama	more better.	
	siapapun tapi jangan sama?		
	Ss: mantan.		
	T: Ok the next presentation will be	Teacher shared the information to	
	Deo. Deo please prepare	the students. She also told one of	
Showing and	yourself.	the rules of teaching learning	
Telling	T: You are not allowed to talk and	process.	
	use your phone.	process.	
	T: Try to make a good question.	Teacher held questin and answer	
	ok, count one, two, guys don't	session by let the students ask to	
	be afraid to ask. Ok, Feni.	the presenter related to the topic.	
	S: Deo, have you already try	the presenter related to the topic.	
Questioning to	Seblak?		
Check for			
	P: yes.		
Understanding	S: Which one the level that you		
	eat?		
	P: Two.		
	T: Deo, two or tu:?		
	P: tu:.		
	T: So, who wanna ask Seto? For	Teacher gave a chance for students	
Plenty of Practice	the Sambisari Temple? Maybe	to practice their speaking.	
1 10mily of Tructice	the one who lives near		
	Sambisari, do you want to ask?		

	Ok Glory.	
	S: (she asked)	
	T: Glory, would you like to speak	
	louder?	
	S: How much that you need to pay	
	to get to the temple?	
	P: Especially for me	
	S: For you?	
	T: What do you want to tell?	
	P: Kalau orang lain itu bayarnya	
	5.000 orang Indonesia. kalau	
	orang luar itu 10.000.	
	T: ok, for the domestic tourist is	
	arround	
	P: The domestic is arround five	
	hundred.	
	T: Five hundred?	
	S: Five thousand.	
	T: Ok five thousand rupiah. And	
	for the foreign tourist?.	
	T: would you like to move back to	Teacher asked students to practice
	theone more slide. Ok, this one.	the pronunciation.
	It's not statu but stæts.u: and then	
	you pronunce jewellery. How to	
	preonunce it? Anyone knows?	
	Gimana tadi Seto pronuncenya?	
	S: jewellery (dʒuː. ə l.ri).	
	T: dʒu:. ə l.ri. And it's not metal	
	but met. ə l mirrors. Kalau	
	metal nanti gini kalian.	
	T: better to say "next please".	-Teacher gave feedback to the
	(when presenter asked to move	presenter about language used and
	the slide to operator)	how to present.
	S: my absent is	-She wanted the students more
	T: my student number.	better in presentation.
Provide Your	Presenter continued the	-She told the material and asked
Students With	presentation.	him to make a good report text.
Feedback	T: deo don't forget to have the	
recuback	interaction to your friends.	
	S: yes miss. (continued his	
	presentation)	
	T: nineteen fourties. (teacher	
	corrected whe the presenter	
	tried to say 1940s)	

	T: Thank you Deo. Wait before we	
	move to the question and	
	answer, I want you to revise it	
	first. Deo, I told you, we have	
	two text structures. The first	
	one is general clasification and	
	second one is describtion. Why	
	don't you put it from your	
	work to the power point?	
	P: I forget.	
	T: Please revise it and I will give	
	you the score after that.	
Being Flexible	T: ok Deo you may close the	Teacher gave enough time to the
about How Long it	presentation.	presenter to present her work.
Takes to Learn	P: Thank you for your attention.	

From the table above, it can be concluded that the strategies used by teacher also six strategies in teaching speaking. Teacher used Setting Clear Lesson Goals strategy to ask students to be more ready and learn while presentation. Showing and Telling, teacher told who would be the next presenter. Questioning to Check for Understanding, after gave feedback, teacher held question and answer between the presenter and audiences. Plenty of Practice, teacher ask students to practice their speaking ability and pronunciation. Providing Students with Feedback, in this part, teacher told the lack of presenter. And then Being Flexible about How Long it Takes to Learn, teacher gave enough time to students to learn the presenter talking about.

Table 4.The Description of the Strategies in Teaching Speaking Used by the English Teacher of XI Bahasa

TEACHING SPEAKING STRATEGIES	UTTERANCES	DESCRIPTIONS
Showing and Telling	T: You have to pay attention to your friends or to the presenters. You have to listen the presenters and then appreciate them. You will score your friends for the presentation but for the file and the content from me. The score will be from 75 to 95. After the friend is presenting the presentation, I want you to make a question. And then who wants to ask I will give you the additional score.	Teacher told the rules of presentation in the beginning of teaching speaking process before the presenters present their work.
Questioning to	T: Ok, who wanna ask?	Teacher checked students'

Check for	S: Where is the location of Blue	understanding by letting the other
Understanding	Lagoon?	students ask some question based
	P: (answered the question)	on the topic.
	S: How much the price to enter to	Teacher held questioning-session
	Blue Lagoon?	after presentation.
	P: Lima ribu	Teacher also help the presenter to
	T: Fivefive thousand	say the words in English.
	rupiah.	3-15
	T: ok, but you present it too fast.	Teacher gave feedback about how
	Ele coba pakai interaksi juga,	to present, sound, and power point.
	lihat temennya jangan Cuma	
	lihat slidenya. Ok, Ele, would	
	you like to repeat once again?	
	But louder.	
Provide Your	P: Ha??	
Students With	T: Louderlebih keras	
Feedback	ngomongnya.	
	P: (he repeat the presentation).	
	T: Ele, please make the general	
	clasification and then, give	
	color for power point. And also	
	good quality picture. So, I want	
	you to revise it.	
Be Flexible About	T: Ok Ele you may close the	Teacher gave enough time to the
How Long It Takes	presentation.	presenter to practice his speaking.
to Learn		

From ten strategies, the teacher only used four strategies in class XI Bahasa. Before the presenter present his work, teacher told the rule of presentation. After the presenter presented his work, teacher gave feedback, held question and answer to check students' understanding, and gave time depend on how long the presenter present his work.

From the observation results of strategies in teaching speaking used by the English teacher of class XI IPA 1, XI IPA 2, and XI Bahasa above, it could be concluded that the English teacher only applied six strategies in XI IPA 1 and 2, four strategies in XI Bahasa. Because the activity in the class was just a presentation done by the students, the teacher seemed like to find some difficulties to apply all of the ten strategies in teaching speaking. Teacher gave enough spaces for students to practice their speaking by using presentation method.

3. The application of strategies in teaching speaking by the English teacher of eleventh grade students of SMA BOPKRI 2 Yogyakarta

Here, the researcher explained how the teacher applied the strategies in teaching speaking of the eleventh grade students of SMA BOPKRI 2 Yogyakarta. Here the table of the application of strategies in teaching speaking by the English teacher:

Table 5. The Application of the Strategies in Teaching Speaking of **Eleventh Grade Students**

	CERT A PERCENCE		
NO.	STRATEGIES IN TEACHING SPEAKING	THE APPLICATION IN THE CLASS	
1.	Setting Clear Lesson Goals	Before the students started presenting their work about Report Text, in the beginning of the teaching and learning process the teacher applied the Setting Clear Lesson Goalsstrategy. It was applied by telling the goals to the students orally.	
2.	Showing and Telling	Showing and Telling strategy was applied by explaining the rules of presentation before the students do the presentation. It was also applied by teacher to built direct interaction through share information to students.	
3.	Questioning to Check for Understanding	Teacher applied Questioning to Check for Understanding strategy by held question and answer session between presenters and audiences after the presenters explained their work about Report Text. There were many kinds of question which were asked by the audiences. It was the way how teacher applied this teaching strategy. She applied this strategy to make sure that students not only listened to the presenter's explanation, but understood what they heard.	
4.	Plenty of Practice	The teacher applied Plenty of Practice Strategy by used presentation activity. After the presenters explained their works, teacher asked students to practice their speaking and the pronunciation.	
5.	Providing Students with Feedback	In applying Providing Students with Feedback startegy, teacher gave feedback which provides students with understanding of what they did and how they can improve. The feedbacks given by the teacher were language used, power point, and how to present.	
6.	Being Flexible about How Long It Takes to Learn	The teacher gave 15 minutes as flexible time to the presenters to present their work about Report Text. But, for the presenters who finished before 15 minutes, teacher let them to close the presentation. She gave enough time to students to practice their speaking ability.	

From the table of application strategies in teaching speaking by the English teacher above, it can be concluded that teacher applied those strategies in a good way. It means that the teacher applied those strategies based on the students' need. Even though there were four strategies could not applied in eleventh grade students, but the application of six strategies in teaching speaking was successful. The teacher was able to build interactive speaking because the students in eleventh grade had been recommended to always speaking in English.

Conclusion

Based on the data analysis as mention in finding and discussion, it can be concluded that the teacher only used and applied six strategies in teaching speaking of eleventh grade. The teacher could not apply four teaching speaking strategies, because she just applied the strtategies based on students' need. The four teaching speaking strategies that could not apply by teacher were Summarizing New Learning in a Graphical Way, Getting Students Working Together (In Productive Ways), Teaching Strategies Not Just Content, and Nurture Meta-Cognition.

The teaching speaking strategies used and applied by the English teacher of SMA BOPKRI 2 Yogyakarata could help students active in the teaching and learning process, because the strategies in teaching speaking was already applied in a good way.

References

- Brown, H. D. (2000). Principles of Language Learning and Teaching. New York: Longman.
- Killian, S. (2015).Top 10 Evidence Based *Teaching* Strategies. http://www.evidencebasedteaching.org.au/evidence-based-teaching-strategies/ (diakses May 2017)
- Reiser, Robert A., & Walter Dick. (1996). Instructional Planning: A Guide for Teachers. Florida: Florida State University.
- Richards, Jack C., & Willy A. Renandya. (2000). Methodology in Language Teaching: An Anthology of Current Practice. USA: Cambridge University
- Ur, Penny. (1991). A Course in Language Teaching. Cambridge: Cambridge University Press.