

SOCIAL CONVERSATION AT THE WORK PLACE

by

KERSTIN M. TÖNSING

Submitted in partial fulfilment of the requirements for the degree

MASTERS IN AAC

IN THE FACULTY OF HUMANITIES

UNIVERSITY OF PRETORIA

SUPERVISOR: PROF. E. ALANT

JULY 2001



ABSTRACT

In order to promote integration at the workplace, augmentative and alternative communication (AAC) systems should support users to engage in social conversation. Systems such as TALK and CHAT, especially designed for the purpose of social conversation, make use of pre-stored text as a rate enhancement technique. Research into relevant conversational topics within contexts such as the workplace can make the use of pre-stored text for conversation more effective.

For the present study, a total of 3 hours, 47 minutes of social conversation of 12 nondisabled participants across two employment contexts were recorded on 11 specific days. The samples were analysed for topics referenced under the three referential frames time, person and content. Results indicate that 'present', 'self' and 'food' were the most frequently referenced categories under each of the three frames. Further analysis of the content frame indicated the presence of topics, which were frequently referenced and referenced consistently across the 11 samples, while other topics were found to be referenced with a high frequency only in some samples. Comparisons are made between these findings and previous research into meal-break topics at the workplace. Overlap in especially the more frequently referenced topics suggests the presence of topics, which are generally appropriate to workplaces characterised by the Western culture. These topics seem to be influenced by participants adhering to basic conversational rules and principles, but also by the context of conversations. Knowledge of both generally appropriate topics, as well as conversational rules can aid AAC specialists in pre-storing text conducive to social conversation at the workplace. However, ecological inventories of specific work contexts are always necessary in order to optimise access to relevant topics.

KEY WORDS

Augmentative and alternative communication (AAC), conversational analysis, employment, integration, little or no functional speech (LNFS), pre-stored text, rate of conversation, social conversation, topic, workplace,



OPSOMMING

Ten einde integrasie by die werksplek te bevorder, behoort aanvullende en alternatiewe kommunikasie (AAK) sisteme die gebruiker in staat te stel om aan sosiale gespreksvoering deel te neem. Sisteme soos TALK en CHAT wat spesifiek vir die doel van sosiale gespreksvoering ontwerp is, gebruik vooraf gestoorde teks as 'n tempoversnellingstegniek vir gesprekke. Navorsing rakende relevante gesprekstemas binne kontekste soos die werksplek, kan die gebruik van vooraf gestoorde teks effektiewer maak.

Vir die huidige studie is 'n totaal van 3 ure, 47 minute van sosiale gesprekke deur 12 nie-gestremde deelnemers opgeneem. Die opnames is op 11 spesifieke dae by twee werksopsette gemaak, waarna dit volgens drie verwysingsraamwerke nl. tyd, persoon en inhoud geanaliseer is. Resultate dui daarop, dat 'hede', 'self' en 'voedsel' telkens die drie kategorieë onder elk van die drie raamwerke is waarna die meeste verwys word. Verdere analise van die inhousverwysingsraamwerk dui daarop, dat daar temas bestaan waarna dikwels en konstant oor die 11 dae verwys is, terwyl ander temas net op sommige dae met 'n hoë frekwensie voorgekom het. Vergelykings tussen hierdie bevindinge en vorige navorsing oor die gesprekstemas tydens etenstye by die werksplek is gemaak. Oorvleueling in veral die temas waarna dikwels verwys is, dui daarop dat daar sekere temas is wat oor die algemeen geskik is vir gebruik binne werksplekke wat deur die Westerse kultuur gekenmerk word. Die feit dat deelnemers basiese gespreksreëls en beginsels aanhang blyk 'n invloed op die temas te hê. Die konteks waarbinne gesprekke plaasgevind het, het egter ook dikwels die tema beïnvloed. Kennis oor algemeen toepaslike temas sowel as kennis oor basiese gespreksreëls kan AAK spesialiste in staat stel om teks vooraf te stoor wat sosiale gespreksvoering in die werksplek sal bevorder. Ekologiese inventarisse van spesifieke werkskontekste sal egter steeds nodig bly om toegang tot relevante temas te optimaliseer.



SLEUTELWOORDE

Aanvullende en alternatiewe kommunikasie (AAK), gespreksanalise, indiensneming, integrasie, min of geen funksionele spraak (MGFS), onderwerp, sosiale gespreksvoering, tempo van gesprek, vooraf gestoorde teks, werksplek



ACKNOWLEDGEMENTS

I would like to express my sincere gratitude to the following people:

- cs Prof Erna Alant: for many hours of expert guidance in spite of many other commitments, for her continued support, motivation and encouragement, and for the enthusiasm she has for her subject a true inspiration.
- **C3** Prof Lyle Lloyd: for valuable input at various ages of the project, and for answering 1001 questions on the reference list...
- Michal Harty, for fitting into her schedule many hours of rating and re-rating, and always doing it with a smile.
- **CS Renate Wolf: for checking every comma and full stop in language editing this thesis, as well as for her continued emotional and spiritual support. You are a true blessing!
- **C3** Rina Owen: for doing the statistical analysis with care and precision, and always having a word of encouragement.
- Corné van der Bijl: for checking transcription reliability indeed a laborious task! and for just being a great colleague.
- All the employees who agreed to participate in the study.
- My colleagues: for sharing my tears and laughter, for emotional support and practical help in so many ways you guys are the best!
- **C3** My family: for the hugs and words of encouragement when I needed them most.
- **Michéle and the two Bible study groups:** for taking turns to pray for me, and for being there when I needed you.
- Wy God: for fulfilling Your promise that You will lead me and fight for me, and bring me safely to this place, just as a father carries his son.

 (Deut 1: 30-31)



TABLE OF CONTENTS

CHAPTER 1: INTRODUCTION AND RATIONALE	1		
1.1 Problem statement	1 3		
1.2 Terminology			
1.2.1 Augmentative and Alternative Communication	3		
1.2.2 Little or no functional speech	3		
1.2.3 AAC system	4		
1.2.4 AAC user	4		
1.2.5 Aided	4		
1.2.6 Conversation	4		
1.2.7 Social conversation	4		
1.2.8 Rate of communication	4		
1.2.9 Pre-stored messages	4		
1.2.10 Text-based communication systems			
1.2.11 TALK communication system	5 5 5 5 5		
1.2.12 Topic of conversation	5		
1.2.13 Referential frames	5		
1.3 Abbreviations	5		
1.4 Outline of chapters	5		
1.5 Summary	6		
1.5 Summary			
CHAPTER 2:THEORETICAL BACKGROUND	7		
2.1 Introduction	7		
2.2 Conversation and social talk	7		
2.3 Rate enhancement	10		
2.4 Predictability of social conversations	11		
2.5 Pre-stored text for social conversation	13		
2.6 Topic defined	15		
2.7 Topics in context	17		
2.8 Topic research in AAC	19		
2.9 Summary	24		
2.5 Summary			
CHAPTER 3: METHODOLOGY	25		
3.1 Introduction	25		
3.2 Aims	25		
3.2.1 Main aim	25		
3.2.2 Sub-aims	25		
3.3 Research design	26		
3.4 Selection of employment contexts	26		
3.5 Participants	27		
3.5.1 Selection criteria and recruitment	27		
3.5.2 Descriptive criteria	28		
3.6 Equipment and materials	30		
3.7 Data collection procedures	30		
3.7.1 Ethical issues	30		
3.7.2 Pilot study	31		
3.7.3 Main study	32		
J. I.J. Ivialli study	6.5		



3.8 Analysis of data	33
3.8.1 Length of recordings	33
3.8.2 Transcription	33
3.8.3 Topic analysis	34
3.8.3.1 Development of a list of categories for the three topic frames 3.8.3.2 Division of conversation samples into communication	34
segments	36
3.8.3.3 Categorisation of communication segments according to	
the three topic frames	36
3.8.3.4 Segments not coded	36
3.8.3.5 Reliability according to the consensus approach	37
3.8.3.6 Statistical procedures	37
3.9 Summary	37
CHAPTER 4: RESULTS AND DISCUSSION	38
4.1 Introduction	38
4.2 Conversation samples	38
4.2.1 Recording time	38
4.2.2 Segments coded	39
4.2.3 Segments not coded	39
4.3 Topic frame referencing	40
4.3.1 Time frame	40
4.3.2 Person frame	43
4.3.3 Content frame	49
4.3.3.1 Frequency of content frame referencing	49
4.3.3.2 Range of content frame categories referenced in the samples	53
4.3.3.3 Patterns of content frame referencing	54
4.3.3.4 Content frame categories: Comparison to Balandin and Iacono's	
study	58 62
4.4 Summary	02
CHAPTER 5: SUMMARY AND CONCLUSIONS	63
5.1 Introduction	63
5.2 Summary of the study	63 66
5.3 Critical evaluation of the study	67
5.4 Implications for clinical practice in AAC	68
5.5 Recommendations for further research	69
5.6 Summary	09
REFERENCES	70
APPENDIX A: Letter for debriefing subjects and consent form	
A-1 Afrikaans version	80
A-2 English version	82
APPENDIX B: Personal information questionnaire	151.0
A-1 Afrikaans version	84
A-2 English version	85
APPENDIX C: Transcription rules	86
APPENDIX D: General coding rules	87
APPENDIX E: Definitions of topic categories	88



E-1 Time frame	88
E-2 Person frame	89
E-3 Content frame	91
APPENDIX F: Communication segments	99
APPENDIX G: Differences in the sampling procedures between the study	
by Balandin & Iacono (1998a) and the present study	100



LIST OF TABLES AND FIGURES

TABLES

Table 2.1:	Summary of AAC research on conversational topic	22
Table 3.1:	Description of the two employment contexts selected	27
Table 3.2:	Descriptive criteria of participants	29
Table 3.3:	Pilot study	31
Table 3.4:	Day, setting and amount of recording time per daily recording	32
Table 4.1:	Recording time and number of communication segments of the	-
	samples	39
Table 4.2:	Segments not coded	39
Table 4.3:	Participants' referencing of the time frame categories, expressed as	
	a percentage of the total communication segments per sample	40
Table 4.4:	Participants referencing of the person frame categories, expressed	US127
	as a percentage of the total communication segments per sample	44
Table 4.5:	Hierarchies of person frame category referencing (in descending	
	order) for Contexts A and B and the total across all samples	46
Table 4.6:	Top ten content frame categories referenced per context	51
Table 4.7:	Number of samples and number of content frame categories	
	appearing in these	55
Table 4.8:	Number of samples in which the top 10 content frame categories	
	were referenced	55
Table 4.9:	Top 10 content frame categories for each of the 11 samples	
Table 4.10:	Content frame categories: Comparison between the current study	
	and Balandin & Iacono's study (1998a)	59
FIGURES:		
Figure 4.1:	Percentage of references to time frame categories for	
	Contexts A and B	41
Figure 4.2:	Time frame referencing: Comparison between the current	
	study and the study by Balandin & Iacono (1998a) and Stuart,	
	Vanderhoof & Beukelman (1993)	42
Figure 4.3:	Percentage of references to person frame categories	
	across contexts	44
Figure 4.4:	Person frame referencing: Comparison between the present	
	study and the study by Balandin & Iacono (1998a)	47
Figure 4.5:	Percentage distribution of content frame categories across all	
	samples	50
Figure 4.6:	Percentage of communication segments accounted for by the	
	ton 10 content frame categories established for each context	52