#### IOSUD – UNIVERSITATEA "DUNĂREA DE JOS" DIN GALAȚI

Școala doctorală de Științe Socio-Umaniste



# TEZĂ DE DOCTORAT NAVAL ARCHITECTURE LANGUAGE IN TRANSLATION (LIMBAJUL ARHITECTURII NAVALE ÎN TRADUCERE)

**RESUME** 

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### TEZĂ DE DOCTORAT Resume

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#### IOSUD – UNIVERSITATEA "DUNĂREA DE JOS" DIN GALAȚI Școala doctorală de Științe Socio-Umane



#### TEZĂ DE DOCTORAT

## NAVAL ARCHITECTURE LANGUAGE IN TRANSLATION (LIMBAJUL ARHITECTURII NAVALE ÎN TRADUCERE)

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translations, specialized translations, specialized textual genres, translation theory, specialized translation theory, specialized terminology, specialized collocations, LSP translation, sense in translation, translation model, naval architecture, specialized discourse, source text, target text

#### **INTRODUCTION**

The study of the language of naval architecture is an extremely complex endeavour and it is so for several reasons including both objective and subjective factors. For more than half a century has the Faculty of Naval Architecture of the first Polytechnic Institute in Galati been unique in the Romanian higher education system. The first generations of naval architects graduated from the Mechanic-Naval Institute which had been founded in Galati in 1951. At the same time, a well-contoured and articulate terminology incorporating inherited, naturalized and adopted words stands as proof of the shipbuilding tradition in Romania. It is worth remembering that this terminology has not only been preserved within the limits of its own field, but it has also been immortalized in lexicographic products as well as university courses for students in NA.

The pioneering explorations of the vocabulary of naval architecture started in the late 1970s and the early 1980s, when Professor Nicolae Bejan at the University of Galati, took the first step on this road not taken before in Romania. His doctoral dissertation entitled *Scientific and Technical Terms in English* is the first milestone in the linguistic exploration and analytical interpretations of the vocabulary of ships and boats. Its greatest merit lies in the fact that it approaches the English register of shipbuilding, not only investigating the field of naval architecture but also comparing it with its Romanian corresponding register. His main concerns and research activity underlie his full dedication to ESP studies, in general, and to the vocabulary of naval architecture, in particular.

As regards the Languages for Special Purposes (LSP) School at "Dunarea de Jos" University of Galati, the in-depth study of various functional styles is only in the phase of late beginnings. There has hardly been a research project to

systematically and thoroughly analyze either the general scope of ESP or a few of its particulars. Individual research projects have added here and there a contribution which has made the domain expand but very slowly.

It is interesting to observe that, by and large, the same steps in chronological manifestations in the life of ESP were noticeable in the activities related to English teaching at the University of Galati. Thus, looking at the research and didactic activity in the field of ESP at the University of Galati, only the very few above mentions reflect that fact that it followed the general Romanian trends identified as peculiar to the academic landscape, but it had its local colouring as well. The contributions from the academics at this Danubian University brought to this field of ESP were both diverse and highly original. This feature of diversity is obvious from a glimpse at their major publications which include not only dictionaries (Bejan, 1984), but also such coursebooks as Limba engleză. Mecanică (Bejan 1960), Limba engleză. Chimie alimentară (Bejan 1963). According to the records of our university library, the tradition of teaching and assessing shipbuilding English seems to have started with a selection of texts from the naval field, i.e. Culegere de texte. Limba engleză. Nave (1973), and it was continued with a volume issued almost twelve years later, English for Students in Shipbuilding (Bejan, Gavriliu 1986). Other specializations taught only in this university were the building of thermal machines and food industries. With its coursebook produced by a Romanian author, Culegere de texte pentru frigotehnie (Asandei 1981), and with English for Students in Food Industry (Bejan, Gavriliu 1989), respectively, this brief retrospective view uncovers the reliable heritage of books dealing with English for professional purposes which had been created before 1989. A thorough research of the contributions in the field of professional English would certainly reveal essential contributions outlined in other collectively-authored dictionaries in glossaries, studies and articles, but those already mentioned suffice to support our plea. For only one example, Bejan authored both the glossary included in

Limba engleză. Știință și tehnică (Bantaș et al. 1981: 258-272) and he also contributed to the field of ESP with a few studies and articles, such as *English* for specific Purposes (Bejan 1982).

These examples, which go back to the 1980s, the interval of the countouring of 'genuine ESP', show that the Romanian authors of university manuals had not only been familiar with the concept of ESP but that they had also adopted it in their works. To make an in-depth analysis of what I believe an ESP university coursebook must look like, I shall briefly describe Bejan and Gavriliu's Limba engleză pentru construcții navale (1986). The structure of the manual is partly similar to and partly different from that of preceding volumes. Thus, the same Romanian title on the cover book hides a content predominantly expressed in English, which is nearly similar to the previously mentioned *Limba* engleză. Ştiință și tehnică (Bantaș et al. 1981), starting with the same "Cuvînt inainte" and then the first part focused on (I) Texts, vocabulary, exercises, whose title is in English (unlike the previously mentioned model provided by Banas et al. 1981). Conceived as a practical module providing authentic texts which will challenge learners to exercise their translational skills, Reading for translation practice, this second element is a modulating section which dwells upon six theoretically-biased topics (1. Introduction to steel shipbuilding, 2. The anatomy of a model ship, 3. The building of the ship, 4. High-speed small craft, 5. Theoretical naval architecture, and 6. The machinery space or engline room, respectively). Finally, the third and concluding section of the book is also an English-Romanian dictionary.

In an attempt of complementing the previously mentioned existing literature, this dissertation continues this collective work of research by bringing a new element in the approach of NA as it will describe this terminology from the lexical, syntactic and translational perspectives.

THE PURPOSE OF THE STUDY was the pragmatic-discursive approach to the naval architecture language which contributes to better solving problems in the area of interference between naval architecture and linguistics (elaboration of specialized dictionaries, ENA translation, diminishing difficulties encountered by non-specialists in contact with ENA).

To achieve this goal, the following goals were set:

- 1. approach of the shipbuilding architecture from the pragmatic and linguistic perspective;
- 2. analysis of the stylistic, morphosyntactic and lexico-semantic peculiarities of the nautical architecture language;
- 3. revealing the pragmalinguistic complexity of the naval architecture language with emphasis on the specific vocabulary; ways to ensure technicalness for specialists and accessibility for non-professionals;
- 4. the comparative approach of vocabulary specific to naval architecture, maritime English with the vocabulary of the common language in order to establish specificities and to improve difficulties of use;
- 5. the social impact of the study of nautical terminology on users by developing specialized dictionaries, creating a specific language more accessible to non-specialists.

Thus, starting from the latest concepts in textual and corpus-based linguistics, our research proposes:

- 1. identify the main patterns of translation used.
- 2. the creation of an interdisciplinary methodology in the terminological study, which combines and applies, in the numerous analyses carried out during the thesis, notions and theories in the fields of corpus linguistics, corpus semantics (semantics), applied and contrastive linguistics, genre

and register analysis, and pragmatic elements - which we have tried to achieve.

#### SCIENTIFIC NOVELTY

In the Romanian research space, the language of naval architecture and its relationship with the English language enjoyed a special attention from the researchers in Galati. To our knowledge, the vast majority of the studies so far have focused on a single product of this relationship, that is terminology, and left other aspects unexplored, such as the phraseology, syntax or general strategies adopted in translating texts produced in the field of naval architecture. For this reason, as a first novel, in an extremely contrastive framework, the thesis studies the general use discourse in the Romanian naval architecture field, investigating how the terminological and phraseological units, the propositions, and the texts, as macro units discursive, are transferred from source language, English, into Romanian.

Since English is, by and large, the origin code of communication in the field of naval architecture and the main vehicle translation through which the new linguistic entities produced in this sector are introduced into Romanian, the research starts from the general premise that at all levels (terminology, phraseology, morpho-syntax, etc.), the Romanian naval architecture discourse is based on the imitation of the English one.

Three premises lead to a general hypothesis:

1. at the terminological level, the main pattern used in the creation of new terms in the Romanian naval architecture language is the terminological loan from English;

- 2. at the level of phraseology and syntax, the direct / literal translation strategies are used predominantly in translating the English naval architecture language discourse;
- 3. at the textual level the translation of general-purpose texts in the naval architecture language domain has its roots in the imitation of the specific functions and structures of English-source texts.

## THE ACTUALITY AND IMPORTANCE OF THE THEME is determined by two reasons:

- 1. The Romanian language and the English language do not yet have a description of the structure and functioning of the naval architecture language synchronously. In Romanian, the attention of the researchers focused, in particular, on the shipbuilding language, contained in doctoral theses or in the collections of texts for naval architecture. The language of naval architecture has not been studied from a linguistic perspective, although it has features that individualize it, especially in the discursive-textual and morpho-syntactic plane;
- 2. Specialized terminology is of interest to linguists because they are constituted and changed outside predetermined norms, they are constantly complemented, they evolve according to the occurrence, the creation of the fields where one or another science is used. Such research can contribute to a better and complete description of the typology of specialized (professional) discourses in current Romanian / English.

#### STRUCTURE OF THE PHD THESIS

The current dissertation, entitled Naval Architecture Language in Translation, tries to connect the existing literature on naval architecture and its terminology with practices which are functional in the translation of English texts peculiar to this field into Romanian. The research project passed through several stages and a few observations, findings and analytic results have already been disseminated by means of communications presented in scientific manifestations held in Romania or abroad and later published either in academic journals or conference proceedings volumes.

By and large, the structure of the dissertation reveals its three basic sections to consist of prolegomena to the dissertation, the six chapters which represent the dissertation proper and the final part which presents the general conclusions as well as the bibliographical elements (bibliographies and the webliography) and the six annexes intended to complement the content of the whole approach.

The first chapter, ENGLISH FOR SPECIFIC PURPOSES. A BRANCH OF ESP, refers to and makes a brief revision of the field of ESP and its terminology, specifying not only what ESP is and enlarging upon their origins, but also showing what characteristics define it, enabling its introduction as a branch in the generous tree of ESP. In the context of globalization, a concept active not only in theoretical approaches to economics and the economies of the planet but also in the study of foreign languages, of international relationships as well as the rapid communication network functional worldwide have pointed to the increasing need for specialized languages in Romania. Indeed, this need is not only true in relation to Romania, but to any other modern country connected to the life of the planet and it is as acute here as anywhere else. In order to meet

these communication needs, more and more individuals have highly specific academic and professional reasons for seeking to improve their language skills. This chapter also brings up the way General English is different from English for Specific Purposes, in general and with a particular focus on naval architecture. After giving the basic characteristics of ESP, this chapter draws a parallel between English for general Purposes and English for Specific Purposes. It introduces aspects related to studying specialized English in naval architecture and the reasons why the system needs it.

The terminology of naval architecture texts is analyzed in the second MORPHOLOGIC LEXICAL AND **FEATURES** chapter, LANGUAGE USED IN NAVAL ARCHITECTURE. As this dissertation takes an interest in the terminology of naval architecture, the presentation and the short analysis of the most common Greek and Latin roots and affixes is of paramount importance. Such basic knowledge, along with rules of word building, facilitates any translator's work when performing translations from this professional field. The language and particularly the terminology of naval architecture would be much simpler to anyone working with them, whether a linguist or a naval architecture professional, if they were standardized. A secondary aim of our analytical and descriptive enterprise was an attempt to produce such a model of standardization. With that concrete aim established, a comprehensive multitude of problems which include lexemes, terms and their etymologies, collocations, acronyms, semantic characteristics of the lexical units and formations, were examined and analysed from different perspectives with a focus on the characteristics of the verb system, with an in-depth analysis of the phrasal verbs and modal auxiliary verbs in the texts excerpted from the corpus of naval architecture literature. In addition to the observations regarding the verb phrase, the noun phrase is also subject of analysis. Our research has induced the idea that the elements of nominalization and the string of nouns that

prevail in our investigated branch of ESP are rather ambiguous in meaning, and hence difficult to translate and even more difficult to understand to a philology-trained translator.

The third chapter, SEMANTIC AND SYNTACTIC CHARACTERISTICS OF THE LANGUAGE OF NAVAL ARCHITECTURE, has a double-fold perspective. It analyzes both the specific semantic aspects, as well as a typology of the texts encountered in the field of naval architecture (presented in Appendix 3) and the syntactic features of naval architecture texts. Analyses involve the pair of English and Romanian languages, with either of them working as both a source and a target language. Translation decisions and strategies as they were published in specialist literature are illustrated by examples of Romanian and English naval architecture translations included in the corpus and in Appendix 4.

The fourth chapter, CULTURAL AND PRAGMATIC ASPECTS OF THE LANGUAGE USED IN NAVAL ARCHITECTURE, is focused on the role of culture in the translation of vocative texts, on the dimensions of intercultural communicative competence by outlining such concepts as: culture-specific items and their classification; cultural filters; High Context Culture versus Low Context Culture; English as a global lingua franca. Within this chapter, translation is considered from a cultural context-sensitive point of view and translators are viewed as intercultural experts. The final subchapter focuses on optimising the cultural intertraffic in the translation of vocative texts.

The fifth chapter, ENGLISH FOR NAVAL ARCHITECTURE IN TRANSLATION, mainly explores the lexical level on the language of naval architecture and it aims at revealing how false friends and collocations may influence naval architecture translations. Very much has been written on the craft of translation as such (Nida 1964, Bell 1991, Baker 1992, Hatim and Munday 2004, Snell-Hornby 2006, Venuti 2004, Venuti (ed.) 2000) or on

translation from English into Romanian (Levitchi 1993, Dimitriu 2002, Dimitriu 2007) and the greatest proportion of these references touch the translation of literature. Less has been produced to regard the theoretical aspects related to the translation of specialized texts (Newmark 1988: 151-161, Croitoru 1996: 62-101, 133-164, Al-Hassnawi 2007, Steiner 1975: 265, Guevel et Valentine 1998: 73-228). Hence, the general tendency to consider translation as a simple exercise, as something that anybody can do with the help of an adequate dictionary is very popular among the less initiated. It is a proven fact that producing a written text by using another written text is a much more complex phenomenon than what is commonly believed by the less initiated in and the overtly non-admittedly but obviously the superficially trained for the practice of translation. This difficulty becomes even more evident when the text in question deals with specialized, technical subjects, such as those peculiar to banking and financing, law, medicine, naval architecture or the like. Some can argue that the main difficulty of technical English in general lies more in its grammar rather than in its vocabulary. In this particular case, when words belonging to the socalled General English appear in the same context with technical terms and within a specific context, they contain field-dependent meanings or shades of meaning, nuances that must be accurately rendered in the final translation. Every translation activity has one or more specific purposes translators must consider and reflect in their final products.

The main aim of translation is to serve as a cross-cultural bilingual communication vehicle among people. In the past few decades, this activity has developed because of rising international trade, increased migration, globalization, the recognition of linguistic minorities, and the expansion of the mass media and technology. For this reason, the translator plays an important role as a bilingual or multi-lingual cross-cultural transmitter of culture and truths by attempting to interpret concepts and speech in a variety of texts as

faithfully and accurately as possible. Most translation theorists agree that translation is understood as a transfer process from a foreign language — or a second language — to the mother tongue. However, market requirements are increasingly demanding that translators transfer texts to a target language that is not their mother tongue, but a foreign language. This is what Newmark calls 'service' translation and when referring to this direction of translation, i.e. from their own language into a foreign language, these translators "contribute greatly to many people's hilarity in the process" (Newmark 1988: 2).

The final chapter of the dissertation, THE IMAPCT OF ENA UPON THE ROMANIAN LANGUAGE/TERMINOLOGY, aims at demonstrating some lexical key issues which are peculiar to three branches of ESP which share the same realia, which are the boats. Unlike mathematics and physics, for example, which share a consistent proportion of formulae, symbols, coefficients, binomials and polynomials, laws and theorems making use of the same denominations, the language of naval architecture and shipbuilding on the one hand and the language of maritime English on the other hand, use different signifiers for one and the same signified, in several linguistic situations. It is the aim of this chapter to identify these terms properly and describe them correctly. In order to achieve this aim, several specialized dictionaries were explored and a selection of such words was the focus of my lexical quests. The chapter consists of three parts: the first, explores the English Maritime Language and provides insights into the specialized language of the ship's users, the second part, dwells upon the different signifiers of the same signified, to end with polysemantic values of words used both in GE and ESP, dealing with words that have one and the same form but which have acquired a particular meaning in either the maritime or the shipbuilding and naval architecture languages.

The structure of the dissertation continues with a section of general conclusions which resumes the main linguistic and translational aspects of the

language of naval architecture which were identified, analyzed and interpreted with a view to making a pertinent portrait of this professional language which is equally hard to understand to both the English and the Romanian layman, with no expertise in the respective profession.

The 11 appendices added to the dissertation are practical and topic-based, as follows:

- (1) Appendix 1 shows a historical survey of shipbuilding from ancient times to nowadays flourishing industry mentioning the Romanian contributions in the field.
- (2) Appendix 2 presents a particular type of text (technical query) form Dry Dock Dubai World presented in chapter 2.
- (3) Appendix 3 describes all the documents provided by naval architects to build a ship with the purpose of each document.
- (4) Appendix 4 gathers different types of noun strings encountered in naval architecture.
- (5) Appendix 5 is a collection of naval architecture texts translated from and into Romanian.
- (6) Appendix 6 gathers a list of terms and phrases used in naval architecture which I found in naval architecture texts and can helpful for naval architecture translators.
- (7) Appendix 7: A synopsis of research topics is the starting point of my corpus for which I had to read various types of documents related to the field of naval architecture.

- (8) Appendix 8: Number of ships built between 1951-1975 is meant to show te Romanian tradition which needed the theoretical expertise of naval architects. As a consequence, the Galatian Institut Metalurgic-Naval emerged.
- (9) Appendix 9: Modal verbs and modal auxiliaries used in naval architecture and EGP texts shows what are the most and less modals used in naval architecture documents according to the type of text.
- (10) Appendix 10: The nominalized phrasal verbs in naval architecture shows the most and less used phrasal verbs.
- (11) Appendix 11 gathers a list of published and presented papers since I used many of my published articles as subchapters in my thesis. The information was published and is available online as mentioned in the list. In order to use the data collected and published or presented in various occasions, the list can be a starting point for future researchers in the field.

#### THE METHODOLOGICAL SUPPORT OF THE DOCTORAL THESIS

As it was mentioned in the introduction, the current study continues a tradition but it brings an element of novelty which is essentially based on the preoccupations of the preceding generations of ESP analysts. The object of the current research is based on several theories which are popular in linguistics and which include, among others, the theory of atomistic interpretation, the general word formation theory, as well as the theories frequently described in the literature of Translation Studies. The analysis of the NA language started from the structure and origin of lexemes and it also considered their associations in collocations, compounds and phrasal verbs. The making of a corpus was an interesting task as it involved an inventory of NA text typologies, an

identification of their particular features as well as bibliographical studies facilitating the outlining of a history of scientific translations from English into Romanian. It could hardly be profitable to discuss or approach the reverse direction of translations due to the very simple fact that the Romanian community of naval architects and shipbuilders use English as their second language institutionally. This is a natural consequence of their activity: the products they make in this world travel on all oceans and seas of the world and the people who exploit or operate them use English as a lingua franca on a daily basis.

Thematic articles were chosen for the study, as analyses on technical discourse are mostly devoted to the classical research written genres like abstracts and research articles, whereas the subgenre of thematic articles is hardly covered. In addition, three other criteria were considered: their intended audience, their recent date of publication and the social topics they address, the latter being regarded as the most outstanding feature of this sub-genre. As for the first criterion, this sub-genre is addressed to a particular community —naval architecture students, naval architects and other researchers involved in naval architecture. Secondly, the ten selected articles regard recent issues (2010), and may therefore help us to analyze the most recent trends in specialized writing.

The research methods I made use of can be grouped into two categories: general research methods and language research methods. My most important phases in the elaboration of this dissertation were:

- (a) documentation involving the data collection, sorting and the creation of the lists to be considered as the project progressed;
- (b) consultation of bibliographic materials, academic journals and electronic versions of books relevant for my research provided by the service accessible via google.books.com
- (c) the critical reading of informative and formative literature;

- (d) the creative writing and re-writing of the first draft;
- (e) my critical reading, proofreading and editing of the first draft;
- (f) the submission of the manuscript to my scientific adviser and to the members of the advising board.

Being rather familiar with the language of naval architecture, I had frequently based my lectures of specialist texts on observation, reading with comprehension, chacking and double checking of the illustrations of interest to my research. For my vocabulary and lexical study, I manually selected words from different sources (the internet or electronic sources, included), creating lists of English words, and lists of English words accompanied by their Romanian corresponding versions or equivalents. The same concern for the selection of the adequate example or excerpt extracted from standardized regulations and rules characterized my preparation of the materials for the examination of larger linguistic representations, such as nominal compounds, sentences and text fragments. The basic method of work was the textual analysis which started with detecting and accounting for modal verbs, then the data were analyzed, interpreted and the results were synthesized and presented, most commonly, in a tabular form.

To produce well written descriptions and analyses I dwelt upon what I considered to be inspirational models of ESP text interpretation provided by authors with expertise in the field. Of the linguistic methods, I have equally relied on the comparative and the contrastive method. The parallel presentation of the macrostructure of the glossary of naval elements consisting in the comparison of the larger sets of English words and their existing or suggested Romanian counterexamples required the use of the comparative method. The contrastive method has also been used in order to compare official versions of English documents and their Romanian correspondents. I have resorted to both quantitative research methods, required by the corpus (for example, to calculate

the frequency of phrasal verbs in relation to one-word verbs, translations of original naval architecture texts and their Romanian versions), and qualitative methods, documentary methods as well as data collection, processing and analysis methods. Finally, the method based on observation helped me identify the challenges faced by the translator in his/her attempt to translate naval architecture terms.

#### **CORPUS**

The corpus was actually made up of (a) lists with a lexical character, (2) figures to render in support for my affirmations, samples of documents (one such example is presented in Appendix 2), (3) a collection of text pairs, i.e. texts written in both English and Romanian and (4) lists with bibliographical information also to be used more for referential rather than quotational purposes. On my way to reaching the end of the elaboration of my dissertation, I also prepared a (more or less complete) glossary which, in fact, resulted in a mini-dictionary which still requires much, much information and examples to be accepted as a dictionary in its own right. For a deeper insight into the texts, each article was manually processed. I personally consider that, while a software analysis of the texts would have been much faster, by reading each article in turn, I managed, on the one hand, to filter and select translation problems that particularly pertain to NA texts and to identify and highlight the aspects in which I was interested, on the other.

My fundamental materials for the investigation of the facts of language included a collection of technical texts written exclusively by naval architects. These over 100 papers (studies and articles) were mainly contributions to such academic journals as:

- (a) Analele Universității "Dunărea de Jos" din Galați. Fascicula XI, Constructii Nave, available/downloadable due to the Open Access Policy, adopted by its editing staff
- (b) Constanta Maritime University Annals, available/downloadable due to the Open Access Policy
- (c) International Journal of Geosciences, available/downloadable due to the Open Access Policy
- (d) Applied Physics Mechanics, available/downloadable due to the Open Access Policy
- (e) International Journal of Engineering Research, available/ downloadable due to the Open Access Policy.

In addition, I benefitted from the kind support of both former and currently active professors at the Faculty of Naval Architecture, who would agree to lending me their books for good while, as follows:

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Professor Leonard Domnisoru and associate professor Mihaela Amoratiei have been so kind as to give me not only their publications but also details about their research. All of these materials enabled me to find the adequate samples which underlined several discourses and rhetorical features that can provide evidence of the social aspects of this particular disciplinary discourse.

In addition to the above-mentioned elements, my corpus also comprises thematic articles from the journal of Translation Studies: Retrospective and Prospective Views, issued by the Research Centre of the English Department at the Faculty of Letters in "Dunărea de Jos" University of Galați.

Very few lexical cards constituting empirical "translation memories" or rather personal data bases of the professional translators working in the Galati Shipyard, complemented our lexical corpora. These lexical cards which made up with information extracted from a periodical issued by RNR (Registrul Naval Roman or the Romanian Society of Classification) emphasized the specificity of the translational aspects of the language of naval architecture. The periodical in question is Buletin tehnic, the specialist publication issued in the 1980s by RNR (Registrul Naval Roman). This periodical had a glossary section at the end of each number, and it presented the authorized version of the complex structure denominations represented by multi-word set phrases used in the naval architecture, shipbuilding and maritime vocabularies.

Aspects characterizing my EGP Corpus consider the following data:

- (a) Date of the texts: 55% of the documents are less than 10 years old, 30% were written between 1992 and 1960 and 15% in the first part of the twentieth century.
- (b) Number of words of each text: a minimum of 300 words and a maximum of 6,000 so that and the corpus had to comprise at least 50 texts.
- (c) Register: most of the documents are written, and are best described as quality written English the one used in most novels, magazines and newspapers.
- (d) Types of texts: naval architecture newspapers and magazines (mostly British), e-mails, letters, and extracts from novels and short stories which share shipbuilding topics for the general audience (the target reader is not necessarily a naval architect).

The elements of the ENA Corpus are more numerous and they include:

- (a) Date of the texts: all the documents are dated after 1987, and at least 50% of them have been written within the last five years.
- (b) Number of words of each text: a minimum of 300 words and a maximum of 6,000 so that the corpus had to comprise at least 50 texts. (81 texts actually)
- (c) Types of texts:
- 1. Minutes of meetings are the instant written record of a meeting. The present corpus has 148 texts divided according to the discipline into: Technical Safety, Interface, Engineering, Mechanical, Piping, Hull Outfitting& Architecture, Naval Architecture and Structure, Instrumental, Telecom,

Electrical, Marine System, Kick off meetings, Quality, Weekly Meetings, Monthly Meetings, Class Society Meetings.

- 2. Plans identify project specific guidelines and instructions throughout the project and the necessary activities to be performed during the project lifecycle; provide systematic methods for identifying, tracking, approaching, recording issues; describe the responsibilities solving and authorities for and accomplishing the required level of design coordination; identify the tools and processes that will be used to ensure that all project deliverables will be error free meeting good practice and fulfil contractual obligations. The study analyses modal verbs and modal auxiliaries in 10 plans: Emergency Response Plan, Emergency Bridging Plan, Execution Plan, HSSE Management Plan, Inspection and Audit Plan, Management Plan, Mobilization Plan, Quality Plan, Regulatory Compliance Plan and Procurement Plan.
- 3. Procedures define how plans are going to be performed. Modal verbs and auxiliaries were studied in 7 procedures: Change Order Procedure, Document Approval Procedure, Document Control Procedure, Interface Management Procedure, Meeting and Reporting Procedure, Reporting HSSE Procedure, Communication Procedure.
- 4. Standards are documents issued by Class Societies such as DNV, ABS, Lloyd. These documents provide strict rules and regulations which have to be followed in order to build a ship. The present corpus includes 22 DNV documents, 3 Civil Aviation Rules (ships may have helideck areas) and 3 IMO rules.
- 5. Textbooks from various disciplines (Offshore, Piping, HVAC, Structural Analysis, Mechanical, Electrical, etc.). The corpus gathers a total of 48 textbooks.

- 6. Exhibits are 10 contractual documents divided into specific areas: Scope of Work, Schedule of Prices, Work Time Schedule, Performance Guarantees, Project Description and Design Dossier, Particular Conditions For The Performance Of The Work, Co-Ordination Procedure, Quality Assurance and Quality Control, Company Items, List Of Subcontractors & Vendors, Contractor's Organisation & Key Personnel, Health, Safety And Environment Requirements.
- 7. Commentaries to all documents listed in the Scope of Work, i.e. technical specifications, data sheets, drawings, layouts (7483 commentaries).

#### ESTIMATED CONTRIBUTION

The contribution of the research consists in the critical examination and the theoretical reconsideration of the current definitions, theories and taxonomies of the specialized languages, analyzing the place and role of the naval architecture. Moreover, the comparative analysis of the source and translations of the text, the detection of the contrastive elements and the indepth reflection on the factors that complicate the translation of the naval architecture from / to English into / from Romanian, constitute a significant part of this doctoral thesis.

Approaches based on corpus analysis provide interesting results on the naval architecture language. Text-based studies extract statistical data from large text populations. An important result for studying the professional communication of these methods is the emphasis on parameters of similarity and variation which provide useful tools for more detailed analysis of specialized texts. Multidimensional analysis has proved useful in investigating the registry and identifying the features that differentiate it (for example, scientific articles in the field).

The samples used in this PhD thesis were organized to illustrate the linguistic, sociolinguistic, cultural and pragmatic differences of English and Romanian, which are reflected in the translation of the naval architecture language. Finally, due to its theoretical, critical and practical content, this thesis investigates the field of naval architecture translation studies by analyzing the difficulties encountered in translating language, specific language specific terminology, cultural (non) specific elements of a technical field, and comparing the naval and maritime architecture language.

Since any investigation into the language of naval architecture as part of ESP should review the literature that deals with ESP and naval architecture as part of ESP (Chapter 1) shows that the translational approaches in question may be considered either 'too wide' and located somewhere downstream of our own investigation (descriptive and corpus-based approaches) or 'too narrow' and located somewhere upstream of our investigation (approaches offered by comparative stylistics). We have therefore developed an equivalence-relevant methodology which is based on two methodological pillars, the first being a theoretically well-founded translation comparison and the second a highly refined translation corpus. Our theoretical approach is based on a taxonomy of text levels, viz., the syntactic (Chapter 3), lexical-semantic (Chapter 2). Pragmatics as a contextual dimension and as understood here involves knowledge of domain(s), encyclopaedic or 'real world' knowledge and also knowledge of the registers appropriate to specific domains/sub-domains involving knowledge of genre conventions. Since equivalence at the text-incontext level is more than the sum of these three levels and is, in fact, the cohesive and coherent final result of all the relations operating between them, the comparison has been extended to the overall textual level (Chapter 4).

A threefold set of selection criteria, viz., general, qualitative and quantitative criteria, with special emphasis on the qualitative aspect has been devised to create an equivalence-relevant translation corpus containing only

what Kade (1964a) calls "druckreife Ubersetzungen" (publishable translations), i.e., translations of the highest possible quality. The general criteria include both corpus attributes, viz., full text, synchronicity, bilinguality, central corpus and reference corpus, and text attributes, viz., register and genre considerations, functional constancy, text typology, text status, degree of technicality, geographical considerations and the relevance criterion. The qualitative criteria are based on textual and extra-textual data. The textual data constitute the reference corpus (Bibliography II) containing, e.g., SL and TL parallel texts, scientific encyclopaedias, glossaries, etc. Extra-textual criteria which refer to contextual-situational aspects involve typicality in terms of the range of ST authors and translators and translator's competence, the conditions under which the translations were produced, the publication aspect, homogeneity vs. heterogeneity in the range of translators, genres and domains, exclusion of idiosyncratic translator behaviour, recourse to ST authors, translators, and/or experts in the field, and knowledge of the communicative effect of the translations on the receptors. The textual data of the reference corpus together with the extra-textual data have helped us refute or confirm and substantiate equivalence-relevant findings at all levels and have therefore contributed to intersubjectffijing the results of this analysis. As regards the quantitative aspect, a good 20,000 words are considered sufficient (cf also de Haan 1992:3; Bowker and Pearson 2002:45 if.) to exclude "accidental exemplification" (Swales 1981:9), while being representative enough to provide a sound basis for generating well-underpinned regularities and generalizations. Both regularities and generalizations should be capable of implementation in the applied branches of TS. At the same time, we have been able to test out the theoretical framework within which this research has been carried out.

As regards equivalence at the syntactic level (Chapter 3), the investigation of the characteristics of phrasal verbs, modal auxiliary verb forms, noun strings which - in their sentence/clause-reducing function, in

particular - contribute to syntactic compression and condensation of meaning in technical discourse and are a typical feature of the SL register (e.g., Gerbert 1970:6 1 if.), shows that there is a clear translational trend towards employing 'equivalent' clause/sentence-reducing devices in the TT.

Moreover, they help designate and differentiate more precisely the various conceptual relations in the U (Bene 1976:93-94). (For a detailed overview of the findings for the main categories see 31-3.3). As our research has shown, syntactic equivalence in STT is dependent on and interwoven with register requirements, in particular. These requirements call for the use of a high degree of syntactic compression or condensation and conciseness of expression (Kretzenbacher 1991), involving formality and abstraction, and a high nounbased lexical and terminological specificity in Romanian which may be implemented, i.e., by nominalization (see 3.3). This procedure must not be misinterpreted as an instance of "normalization" (Baker 1996; Laviosa 2002), but is one that contributes to "equivalence in difference" (Jakobson [1959] 1992) at both syntactic and overall textual levels. This shows that technical translators do, in fact, correct defective STs in their search for equivalence, as they are expected to do (Schmitt 198Th; Hom-HeIf 1999). The fact that the grammatical, i.e., implicit, non-finite constructions in the English ST are rendered with lexical, i.e., explicit, means in the Romanian TT is certainly not a case of a 'translational universal', viz., "explicitation" or "simplification" (Baker 1996; Laviosa 2002), but one of systemic explicitness. As we have demonstrated, increases in the degree of explicitness may also and specifically occur on register grounds.

Apart from the translation trends established, it has also been shown how further higher-ranking semantic, terminological-phraseological and pragmatic aspects involving cohesion and coherence may influence the syntactic level (see translation solutions in 5.6-5.8). So, whereas register is the main elicitor influencing equivalence at the syntactic level, these other aspects may

additionally come into play and trigger specific translation solutions which also contribute to equivalence at both syntactic and overall-text-in-context levels.

Chapter 2 demonstrated how equivalence can be achieved at the lexical semantic level. It has been shown how this level may influence and modifier the syntactic level, but may itself be influenced and modified by pragmatic considerations. Apart from syntactic and semantic considerations, it is again register that strongly influences the lexical-semantic level. The TL register requirement of a higher degree of verbal specificity (with the features have and be, in particular) versatility (to reduce tedious repetition) and formality is fulfilled by the textual distribution of the translation solutions established and discussed in the various categories (for an overview see 5.6.), so that overall textual equivalence can be deemed to have been achieved. Our analysis of modal auxiliary verbs has shown that there is a clear trend towards more specific verbs in the TT. It has also been shown that consideration of the semantics of the complement, with copular be in particular, and of the clausal and sentential co-text plays a pivotal part in achieving lexical-semantic equivalence. The analysis of the modal auxiliaries yields a wide variety of potential equivalents in the Romanian TT including non-modal and other solutions, depending on the semantics of a particular modal in a particular category and on pragmatic considerations. We have not only established trends in translation solutions (see table 15), but also shown how equivalence at the level under analysis may be achieved and be influenced by pragmatic aspects. It has been found that non-modal forms are used in the TT for modal counterparts in the ST on both semantic and pragmatic, i.e., register, grounds. The results indicate a somewhat reduced need for hedging in the Romanian TT as compared with the English SL, an aspect which would be a fruitful. In the case of the remaining translation solutions, either aspects of cohesion and coherence involving supra-sentential translation solutions come into play and modify the syntactic and lexical-semantic levels of equivalence.

Although it is widely held that the terminology in STT is not 'translated', but replaced (e.g., Horn-HeIf 1999), this research has shown that replacement — which implicitly presupposes that 1: 1-correspondences become potential equivalents on a regular basis - may not always be the way to achieve equivalence at the terminological-phraseological level, since the translation of terms and phrases is influenced by co-textual and contextual conditions pertaining to the specific relationship of an ST-TT pair in context. Therefore, our translation solutions have also cast some light on the difference between translation and terminology which, according to Sager (1992:113), can be described "by saying that translators deal with acts of 'parole', whereas terminologists may use acts of 'parole' but record facts of 'langue'."

As our research has shown, awareness of this difference is essential when it comes to achieving equivalence not only at the terminological phraseological, but also at the overall text-in-context level.

A more general comment should be made regarding the high degree of borrowing of English abbreviations in the TT (5.2.1.4). Since there is an ever growing trend towards English becoming established as "a global language" (Crystal 1997) and the international language of science (Ammon 2001, 1998), Romanian users tend to take over English terms and technical abbreviations into their mother tongue as shown in Chapter 6. This may well lead to an impoverishment of the Romanian technical register. Translators working in close cooperation with TL experts in the field could make an important contribution in this respect by helping coin Romanian terms and abbreviations, specifically in cutting-edge research, in order to develop and advance the various registers of their own national languages. Moreover, as this research has shown, translation may not only assume a language/register developing function, but also a corrective function. The latter aspect is all the more important, since - as the great scientist Chargaff (1986) has pointed out - English as the lingua franca of science "is much easier to use badly than was

Latin" (op. cit.: 109). In fact, publications in English by non-native speakers have been criticized by English native speakers for their lack of linguistic quality (Animon 2001: 354). The findings of research into equivalence on the basis of high quality specialized translation corpora may then help improve the linguistic translational knowledge of scientists, too, since scientists today are more or less forced to publish in English (either directly or via translations) if they want to make their contributions known in the international scientific community (Ammon 1998). Therefore, promotion of translation work in both translation directions is a valid desideratum (cf also Trabant 2000: 16). Chapter 6 has demonstrated how naval architecture terms were coined in Romanian can be achieved at.

#### **GENERAL CONCLUSIONS**

Our research has shown the influence of English naval architecture terminology upon Romanian terminology, the prevalence of business terms in shipbuilding newsletters and the biased relation between naval architecture and maritime language.

Our research has brought to light the nature and extent of transposition, modulation and other procedures required to achieve equivalence at the text-in-context level and has helped us understand the motivation behind the shifts occurring in the TT, since it is the motivation behind a shift that is of relevance in the translational context, rather than the shift itself. Therefore, as a 'side effect', this research points to the need to revise the so-called 'universals of translation' (Baker 1996; Laviosa 2002), and here in particular, the hypotheses of 'explicitation' and 'normalization'. Both these 'universals' may occur on well-

motivated or on unmotivated grounds. In the latter case they may simply betray a debatable translation quality.

According to the myth of the omniscient and omnipotent translators, the translator can find perfect terms to establish the equivalence between the two languages and cultures that come into contact. In other words, he can establish a perfect communication between the two languages and cultures. This theory also highlights the fact that the translator is a competent person who can control all the events that appear in the act of translation.

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