

UNIVERSITI PUTRA MALAYSIA

NEGOTIATION APPROACHES, INITIAL POSITION AND CHOICE OF COMMUNICATION MEDIUM IN SOLVING ENVIRONMENTAL CASES IN MALAYSIA

NORHAYATI RAFIDA ABDUL RAHIM

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By

NORHAYATI RAFIDA BINTI ABDUL RAHIM

Thesis Submitted to the School of Graduate Studies, Universiti Putra Malaysia, in Fulfillment of the Requirements for the degree of Doctor of Philosophy

September 2016

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Abstract of thesis presented to the Senate of Universiti Putra Malaysia, in fulfilment of the requirement for the degree of Doctor of Philosophy

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This study examines the relationship of negotiation approach, initial position and the use of communication medium among environmental control officers in solving environmental cases in Malaysia. Previous studies believe that negotiation is more efficient in a form of face-to-face (FtF) communication. Since conflict may be complicated at times, the use of communication medium is an advantage in order to reduce the gap of which may not be able to be provided by the traditional communication of FtF. The communication media are found to have communication patterns and managerial effectiveness. The new technology of communication is unable to replace FtF when FtF interactions offer richer communication and result in better outcomes. To what extent the negotiation approach determines the choice of the communication medium? Which communication medium that is mostly used in the negotiation? To what extent do the environmental control officers make it rational to choose the particular communication medium? Does the covariate variable of initial position exert influence towards the direction between the negotiation approach and the choice of communication medium? There are two approaches involved namely qualitative and quantitative. A qualitative approach refers to a preliminary study which uses interviews, as the first stage of the research process. The interviews are carried out with the Environmental Control (ECo) and Assistant Environmental Control Officers (AECo). The interviews gather information to be used in at the second stage by which a quantitative approach is employed. The quantitative approach refers to a survey which adopts a set of questionnaire and responses of 186 respondents are analyzed. The analysis includes descriptive, T-Test, Chi-Square Test and Analysis of Covariance (ANCOVA) using the Statistical Procedure for Social Sciences (SPSS). The analysis wishes to identify which negotiation approach that actually determines the choice made on the communication medium and whether or not the covariate variable of initial position exert influences in the dependency of negotiation approach (integrative or distributive) and the choice of communication medium. The findings reveal a significant dependency of integrative negotiation approach in the rationales of choosing FtF when there is an influence of initial position, which is at the problem-tosolve stage. The distributive approach of negotiation, on the other hand, makes it significantly rational to use letter/fax in solving the environmental case in Malaysia.

No influence of initial position is found to be significant in this particular direction. Other communication medium is found insignificant to none of the approach used in the negotiation after taking into consideration the presence of initial positions respectively. The new communication medium such as short messaging system (SMS) and website have been found as insignificant. FtF remains as the richest type of communication medium and to be practiced by the environmental control officers specifically in solving the environmental case. As environmental case involves multi parties, the effective communication must be constantly exercised through enforcements and trainings. An extensive study may revisit the strength of new communication medium from various factors such as the context of study, the outcomes of negotiation and the understanding of the cases involved in the negotiation.



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PENDEKATAN RUNDINGAN, POSISI AWAL DAN PEMILIHAN MEDIUM KOMUNIKASI DALAM MENYELESAIKAN KES-KES ALAM SEKITAR DI MALAYSIA

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Kajian ini mengenalpasti hubungan pendekatan perundingan, posisi awal dan penggunaan perantaraan komunikasi dalam kalangan pegawai alam sekitar untuk menyelesaikan kes alam sekitar di Malaysia. Kajian terdahulu mendapati perundingan yang lebih efisyen adalah dalam bentuk komunikasi bersemuka. Oleh kerana konflik menjadi sukar pada sesebuah keadaan, penggunaan perantaraan komunikasi tertentu memainkan peranan yang penting dalam usaha untuk mengurangkan jurang yang mungkin tidak dapat disediakan oleh komunikasi tradisional seperti yang terdapat pada komunikasi bersemuka. Setiap perantaraan komunikasi memiliki corak komunikasi dan keberkesanan pengurusan yang berbeza-beza. Teknologi komunikasi baharu tidak dapat mengambil alih komunikasi bersemuka dengan melihat tahap interaksi bersemuka yang lebih berkesan dan memberikan hasil yang lebih baik. Sejauh manakah pendekatan perundingan menentukan pemilihan perantaraan komunikasi? Jenis perantaraan komunikasi yang manakah sering digunakan dalam perundingan? Apakah faktor yang rasional dirasakan oleh Pegawai Alam Sekitar dalam memilih jenis perantaraan komunikasi yang bersesuaian? Adakah pemboleh ubah bersama (Covariate) oleh posisi awal mempengaruhi hubungan di antara pendekatan perundingan dan pemilihan perantaraan komunikasi? Terdapat dua pendekatan yang terlibat iaitu kualitatif dan kuantitatif. Pendekatan kualitatif merujuk kepada kajian awal yang menggunakan kaedah temubual, sebagai peringkat pertama dalam proses penyelidikan ini. Temubual dijalankan dengan Pegawai Kawalan Alam Sekitar dan Penolong Pegawai Kawalan Alam Sekitar. Temubual mengumpulkan maklumat yang digunakan untuk pembangunan instrumen pada peringkat kedua. Pendekatan kuantitatif merujuk kepada kaji selidik yang menggunakan set soal selidik dan maklumbalas daripada 186 responden. Analisis yang digunakan adalah termasuk deskriptif, ujian-T, Ujian Chi-Square dan Analisis Covarian (ANCOVA) menggunakan perisian Prosedur Statistik untuk Sains Sosial (SPSS). Analisis ini diperlukan bagi mengenalpasti jenis pendekatan perundingan yang digunakan ketika membuat pemilihan perantaraan komunikasi yang diperlukan dan juga peranan posisi awal dalam mempengaruhi hubungan di antara penggunakan pendekatan perundingan (integratif atau distributif) dan juga pemilihan bentuk perataraan komunikasi dalam menyelesaikan kes alam sekitar di Malaysia. Dapatan kajian menunjukkan bahawa terdapat hubungan yang signifikan di antara pendekatan perundingan yang integratif dengan rasion permilihan perantaraan komunikasi dalam menyelesaikan kes alam sekitar. Kajian menunjukkan di mana setiap kali pendekatan perundingan integratif digunakan, ia merasionalkan pemilihan kepada komunikasi bersemuka apabila posisi awal adalah pada peringkat cenderung untuk menyelesaikan masalah. Perantaraan komunikasi surat atau fax pula dilihat signifikan sebagai rasional digunakan ketika pendekatan perundingan adalah jenis distributif. Perantaraan komunikasi yang lain didapati tidak signifikan dalam pendekatan perundingan yang digunakan selepas mengambil kira pengaruh posisi awal untuk menyelesaikan kes alam sekitar di Malaysia. Perantaraan komunikasi baru seperti sistem pesanan ringkas (SMS) dan laman web yang didapati tidak signifikan untuk menggantikan penggunaan perantaraan komunikasi tradisional dalam menyelesaikan kes-kes alam sekitar di Malaysia. Kajian ini mengesahkan penemuan terdahulu kepada kapasiti komunikasi bersemuka sebagai perantaraan komunikasi yang paling berkesan dalam perundingan. Komunikasi bersemuka adalah penting untuk diamalkan oleh pegawai-pegawai alam sekitar khususnya dalam menyelesaikan kes alam sekitar yang mana perlu dilaksanakan melalui penguatkuasaan dan latihan yang berterusan. Satu kajian menyeluruh boleh melihat semula kekuatan perantaraan komunikasi baru dari pelbagai faktor seperti konteks kajian, hasil perundingan dan pemahaman berkenaan kes-kes yang terlibat dalam rundingan.



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This thesis was submitted to the Senate of Universiti Putra Malaysia and has been accepted as fulfilment of the requirement for the degree of Doctor of Philosophy. The members of the Supervisory Committee were as follows:

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LIST OF ABBREVIATIONS

А	Agree
AECO	Assistant Environment Control Officer
ANCOVA	Analysis of Covariance
BN	Barisan Nasional
AELB	Atomic Energy Licensing Board
BOD	Biochemical Oxygen Demand
CARPA	Committee Against Repression in The Pacific and Asia.
СМ	Communication Medium
СМС	Computer – Mediated - Communication
COD	Chemical Oxygen Demand
DA	Distributive Approach
Da	Disagree
DO	Dissolved Oxygen
DOE	Department of Environment
DV	Dependent Variable
ECO	Environment Control Officer
EIA	Environmental Impact Assessment
FL	Fax or Letter
FtF	Face-to-Face
IA	Integrative Approach
IG	Instagram
INWQS	Interim National Water Quality Standards
IP	Initial Position
IV	Independent Variable
LAMP	Lynas Advanced Materials Plants
LLDa	Likely to Disagree
Μ	Mean
MAQI	Malaysia Air Quality Index
MCE	Malaysia Certificate Education
MRT	Media Richness Theory
Ν	Neutral

NA	Negotiation Approach
NH3N	Ammoniacal Nitrogen
NSS	Negotiations Support System
NRE	Natural Resources and Environment Malaysia
RCT	Rational Choice Theory
RMG	Recommended Malaysia Air Quality
S.D	Standard Deviation
SA	Strongly Agree
SDa	Strongly Disagree
Sig.	Significant
SPSS	Statistical Procedure for Social Science
SPT	Social Presence Theory
SS	Suspended Solids
SSEC	Selangor's State Executive Council
USA	United State of America
WA	Whatsapp
WC	WeChat
WQI	Water Quality Index

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Studies on communication have shown an extensive findings on wide range of human's life and needs such as health communication, environmental, climate, family, crisis and negotiation (Schiavo, 2007; Boykoff, 2011; Fearn-Banks, 2011; Galvin, Bylund, & Brommel, 2012). These findings emphasize on theories of communication, patterns, solutions and relationship of which may vary in terms of variables that forms somewhat called as multidisciplinary.

Since the early 1980s, environmental cases have been a significant area of scientific concern and had entered mainstream media (Committee Against Repression in the Pacific and Asia, 1988; Purdy & Balakrishnan, 2000). The reporting, apparently, drew huge public attentions and created the urge for solutions from the government (Depoe, Delicath, & Elsenbeer, 2004; Cox, 2010; Jurin, Roush, & Danter, 2010). In the discussions relating to the environmental cases, the media was perceived as a powerful agent that mediated the communication between the government and the other conflicting parties (Hansen, 2010). However, as media coverage of environmental cases increases in the twenty-first century, the gap between the understanding of environment and the choice of communication media appears to widen.

Despite all the research on communication medium and negotiation, few studies have tackled the choice made on the communication medium used in negotiating environmental cases. Communication media are found to have a significant impact on negotiations (Poole, Shannon, & De Sanctis, 1992) which include the communication patterns and managerial effectiveness (Yates & Orlikowski, 1992). Importantly, communication media determine how much access negotiators have to perceptual and communication cues and they influence the semantics, syntax and style of negotiators (Fulk, Schmitz, & Steinfield, 1990). Since the number of organizations and individuals with access to computer-mediated-communication (CMC) has increased (Kiesler, Siegel, & McGuire, 1984), it is interesting to examine the extent to which the technologies benefit to the advantage of the negotiation.

Purdy (2000) claimed that there is a possibility that negotiators may refuse to use the new technologies on the basis that face-to-face (FtF) interactions offer richer communication and result in better outcomes. Since more organizations and individuals have alternatives in using these technologies, a research is needed to investigate other communication media and to what extent the negotiation determines the choice of communication medium (Purdy & Balakrishnan, 2000). A number of research were found examining the use of telephone (e.g., Lewis & Fry, 1977; Williams, 1977) and video conference (Drolet & Morris, 2000) in the negotiation process which justifies the

need of a broader understanding about the relationship between communication media and negotiation.

According to previous studies, a negotiation is believed to be efficient if it is carried out using FtF communication. De Loach (1992) asserted that the presence of clear instructions, communications skills are inevitable in a negotiation process. The media were found to be helpful as a facilitator that help the solution process at ease (Barry and Oliver, 1996; Curhan *et al.*, 2004) namely email and CMC (Hollingshead, 1996; Kersten, 1999; Drolet & Morris, 2000). With new technologies that are expanding nowadays, it is, therefore important to examine the selection of communication medium by a certain negotiation approach namely integrative and distributive. Since conflict is found to be more complicated in multi-groups, the use of communication medium should be significantly considered in order to replace the traditional communication of FtF.

1.2 Problem Statement

Environmental issues are relatively not new anymore. The development of communication technology embraces greater infrastructures, which makes the issues of environment more apparent. The media were found becoming more prominent beginning in 1980s, the case of Papan-Bukit Merah (1988), followed with the dam issues at Bakun, Sarawak (1986), incinerator project at Broga, Selangor in the 2003, and in the 2011, the rare earth project by Lynas Advanced Materials Plants (LAMP) at Gebeng, Pahang, greatly took place in the media (Mohd Zaini & Rosli, 2011). Not only traditional media, the new media have been widely used as a point of references such as websites, blogs, social networks, and mobile applications such as *WhatsApp* (WA) and *WeChat* (WC). Regardless of political or personal reasons, the spread of information is thus amazingly fast and the impact is undeniably amazing (Jauhariatul & Jamilah, 2011).

Both traditional and new media is profoundly powerful in terms of coverage, dissemination in which people get access and, in fact, communicate with the authority to negotiate and voice out their concerns in solving environmental cases. Since environmental cases usually involve more than one party, the media landscape has been perpetual in the context of news interests of which negotiation and communication took place. Valley, Moag and Bazerman (1998) found that what is lacking in the economics and behavioral decision research is due to the ignorance of the critical variable – the medium of communication between parties.

According to Johnson and Cooper (2009), they found that concession is hardly achieved through computer-mediated communication (CMC) with minimal effect in the negotiation process which in turns, make it difficult for the negotiators to reach consensus in the negotiation (Thompson & Nadler, 2002; Valley, Moag, & Bazerman, 1998). One of the reasons can be due to the way the information is presented, influences human decision making which is strongly related to the layout provided by the electronically supported negotiations (Gettinger, Koeszegi, & Schoop, 2012).

While email negotiation leaves the negotiators to uncertain condition, it leads to mistrust and failures. Besides, the email negotiation usually takes longer, less fairness and dissatisfaction is likely to occur throughout the process (Purdy & Balakrishnan, 2000). Trust has been recognized by many scholars and practitioners as a significant factor for negotiation success (Kong et. al., 2014).

Number of cases such as Papan-Bukit Merah, incinerator project in Broga and Bukit U10 in Shah Alam made attempts into solving the issues via negotiations (Committee Against Repression in the Pacific and Asia, 1988). Similarly, Lynas project, which was first announced on 29th July 2009 received huge reporting from numerous sites namely malaysiakini.com, malaysiatoday.com, Harakah, Facebook, and http://stoplynas.org. This scenario has greater impacts on the acceptance for the project among the societies whom familiarity towards the project is still doubtful. Mustafa (2012), in his study on three mainstream newspapers namely, The Star, New Straits Times and Utusan Malaysia (from April 2011 to March 2013), revealed significant remarks about the attentions given by the local newspapers towards the Lynas project. The attentions and critiques revolved around the wastes produced are in huge amounts and they will be a grave threat to health because the wastes would include radioactive thorium and uranium (Phua & Velu, 2012). Besides that, the protest highlight on the methods of waste processing and disposal being proposed by Lynas Corporation are deplorable and irresponsible, In the meantime, the economic benefits are dubious because of the twelve year tax holiday granted by the Malaysian authorities, the low number of jobs that will be created.

The reports in the media have given ample space for local communities, civil society groups in Kuantan, the prime minister, Barisan Nasional (BN) politicians and officials from the ministries as well as of the Atomic Energy Licensing Board (AELB). As Malaysia develops, the infrastructure of communication is growing and expanding that the environmental cases becoming significant. Media have been widely accepted as means of handling negotiations in environmental conflicts (Drolet & Morris, 2000; Morris, Nadler, Kurtzberg, & Thompson, 2002). Since the environmental conflicts involve more than one party, the negotiation usually becomes complicated (Ybara & Ramon, 2004) and, therefore, making the choice of communication medium to negotiate, more challenging than it should be. The likelihood that the conflict is delayed may also be possible. As the number of conflict actors increases, the usage of communication media may as well be various and widening. A dispute over environmental cases from a communication medium perspective provides a strong case for this study. The communication medium landscape, thus, needs to be re-examined.

Previous studies have shown a greater amount of interests were given on the communication medium chosen where FtF, for instance, exerted influence on the approach of negotiation used to solve the environmental conflicts. These studies apparently did not focus on the indirect effect between the negotiation approach (in the context of independents variable) and the choice of communication medium (in the context of dependent variable). There are number of factors that form the negotiated agreement. It takes more than the understanding and commitments towards the negotiation process. The amount of time, for instance, is measured whether or not

there is ample time to reach an agreement (Purdy & Balakrishnan, 2000; Harinck & De Dreu, 2004; Etemadi, 2004; Tosini, 2006; Bulow, 2010; Khorana, 2013; Bled, 2010).

Previous studies give a great emphasis on which communication medium had been used in the negotiation to solve the environmental cases. Even though it is crucial to choose the best communication medium in the negotiation, there is a gap in the previous studies on what makes it rational for the negotiators to use certain communication medium and not others. The Rational Choice Theory (RCT) believes that every action (choice) is inspired by the desire of the individuals. In the context of this study, the negotiation approach is defined as the desire or the wishes that rationalize the action of choices towards the communication medium in the negotiation to solve the environmental cases. It is supported by the study of Van Evra (1990) which highlights the impact of television whereby the use of the communication medium depends on the amount of viewing, presence of information alternatives, and perceives reality of the medium. It provides a ground support on the inclusion of rationality of usage in this study since and examination of choice should consider the usage of the particular communication medium.

Since this study is interested in the effect of negotiation approach (independent variable) on the choice of communication medium (dependent variable), the RCT has become the theoretical framework that explains whether or not the choice of communication medium is actually dependent on the desire for negotiation approach employed in solving the environmental case. There are number of factors that influence the choice of communication medium in the negotiation process. A study on newspapers coverage of the incinerator project at Broga, Semenyih, suggested that newspaper had been chosen for its reliability and accessibility among the readers (Norhayati Rafida, 2010). In addition to that, the newspapers were chosen because of readerships, which were more localized as compared to online newspapers readers.

Besides, this study found that the initial position also influenced the choice of communication medium, which then raises a question if the initial position has mediation effect in the relationship of the negotiation approach, and the choice of communication medium. According to previous studies, a negotiator's own position, and information about the opponent's position were manipulated in a simulated contract negotiation (Stuhlmacher & Champagne, 2000; Sanson & Bretherton, 2001; Khorana, 2013). It is significant to provide evidences the fact that certain communication medium is chosen depending either on the approach they employ or the initial position they possessed in the negotiation to solve the environmental conflicts.

Apparently, the approach that is employed by the conflicting parties is found to be more effective if their initial position is compatible for cooperation and trust to each other. Kellerman (1996) points out that the endurance of power struggle will lead one negotiation to a failure. As the initial positions may contradict, the solution is based on the real picture of the problem, and then identifying the underlying concerns can be overcome through effective listening, openness and equal time needed for the resolution to take place (Jerry Adel & Company, 2006). The position represents the stance of the needs that are influenced by the interests in the subject matter. According

to Gatelier (2012), positions are expressed through the communication and the articulation of arguments in the conflict. Not only the needs, but also the opportunities, the constraints and their role in the negotiation setting contribute to the positions that they are taking place.

Thus, as the initial position arises, the intractability of the conflict seems to be greater due to differences of needs and sharing is totally our out the action (Conflict Information Consortium, 2007). As a result, the solution that they are seeking will consider the positions, but not the extent of legitimacy importance. This situation of the negotiations will result in a win-lose nature. However, in any case that both parties work towards clarification of what they actually need, the interests can be partly compatible which makes the negotiation for solution much easier.

In order to examine the choice of the communication medium, this research makes an attempt to identify the approach of negotiation believing that there is no medium that is best for negotiation and still inconclusive (Poole, Shannon, and De Sanctis, 1992; McGinn & Croson, 2004). Bercovitch and Jackson (2001) found that there is significant amount of research on conflict that focuses on the processes of negotiation of how negotiation begins, why parties choose one approach or the other which apparently has been relatively ignored. This research, therefore, wishes to answer several questions by which the findings may either conform or explain the phenomenon of the action between the negotiation approach and the choice of communication medium in solving the environmental case in Malaysia.

1.3 Research Question

- a) What is the negotiation approach employed by the environmental control officers namely integrative or distributive?
- b) Which communication medium that is frequently used in the negotiation?
- c) What are the rationale factors for the choice made to the particular communication medium in the negotiation?
- d) What is the initial position of the environmental control officers across two approaches of the negotiation in solving the environmental cases?
- e) Do initial positions play a role as covariance effect towards the relationship between the negotiation approach and the rational choice of communication medium in solving environmental cases in Malaysia?

1.4 Research Objectives

- a) To determine the type of negotiation approach employed by the environmental control officers namely integrative or distributive;
- b) To identify the communication medium that is frequently used by the environmental control officers across the two approaches in the negotiation;
- c) To identify the rationale factors for the choice made to the particular communication medium in the negotiation;

- d) To determine the initial position that is taken by the environmental control officers for both approaches of negotiation;
- e) To examine covariance effect of initial position towards the relationship between the negotiation approach and the rational choice of communication medium in solving environmental cases in Malaysia.

1.5 Significance of Study

Two areas become the main contributions of this study, which are theoretical aspects, and the pragmatism of negotiation within the scope and needs of industries especially in solving conflicts. Any theory stances on a specific belief, which denying certain aspects of the phenomenon or acknowledging the specific influence rather than declining for what matters for a particular theory. This study, therefore, brings forward the theory of rational choice that involve decision making of which action of choices is actually related to which desires (negotiation approach) held by the negotiator based on the information and belief in the particular conflicts. In either direction, this study reveals the extent to which the issues of environmental may produce different outcomes in terms of the choice of communication medium being in the particular negotiation approach and initial positions respectively.

In fact, the inclusion of initial position allows for better explanation in relation to the wishes or desires they have before making their choice of the communication medium. If the negotiation approach is not correlated with the choice they make on the communication medium, the variable of initial position may be able to explain the phenomenon rather than the total rejection of the existing relationship. Significantly, it explains the direction of making a choice does not depend solely on the negotiation approach, but also the initial position, which rationalize the negotiation in solving environmental conflicts via communication medium.

Importantly, this study is hoped to provide sound justification the extent to which negotiation approach can lead to a certain choice of communication medium in solving environmental conflicts. Having had this study, the findings becomes useful to the prospect of practice by the Department of Environment (DOE) specifically in carrying out strategies and making useful of communication medium available in Malaysia. As environmental conflicts involve more than one party, this research provides useful insights about an effective way to negotiate via the communication medium available in solving environmental conflicts.

Theoretically, this study significantly contributes to the framework when the negotiation approach plays a significant role in determining the communication medium chosen in solving the environmental conflict in the light of RCT. Social Presence Theory (SPT), for instance, believes that each communication medium has different aspect of presence that influence how much one would benefit especially in delivering the negotiation approach in the negotiation process. The higher intimacy and immediacy the medium has, the higher the social presence is (Short, Williams, & Christie, 1976; Trevino, Webster, & Stein, 2000).

Apparently, the Media Richness Theory (MRT) believes that as the communication medium gets richer, there will be more uncertainties to be reduced, and the more likely it is that effective communication will have taken place when communicating ambiguous tasks (Dennis & Kinney, 1998). FtF communication is considered to be the richest medium due to its capability of receiving immediate feedbacks and multiple cues while utilizing natural languages (Dennis & Kinney, 1998; Trevino, Webster, & Stein, 2000).

1.6 Limitation of Study

This study is prepared within the limited context that provides more focused and systematic way of managing this study. Having had the aim and the objectives, this section entails some details on which and why the limitation is given to the study. Among other, the limitation of study occurs within the subjects of negotiation approach, communication medium, environmental cases, sampling of study and location of this study.

This study emphasizes on the identification of negotiation approaches rather than analyzing the process of negotiation that is taking place in the conflict. The negotiation approach is categorized as the independent variable namely integrative and distributive. In other words, the focus is given to the approach of negotiation and in what ways that the approach may influence the action of choice towards the communication medium in solving the environmental conflict.

Next limitation refers to the type of communication medium, which is treated as the dependent variable of the study. The limitation is based on the feedbacks, which were obtained from the interviews made by the environmental control officers prior to pilot test and data collection. Among other reasons of the usage of communication medium, regardless of the advance of the communication technology, is greatly caused by the availability, time constraints and the absence of authority in making prompt decision whenever necessary. According to the pilot study made prior to the operationalization of variables, the choice of communication medium is thus limited to FtF, telephone, email, websites, printed newspapers, online newspapers and fax or letter (F/L).

The context of this negotiation is set for the environmental conflicts that occur in Malaysia, Prevalent changes has been seen in the environmental conflicts since 1980s in the Papan-Bukit Merah protest and then Lynas Project at Gebeng, Pahang in 2010. Issues such as Bakun development, unsustainable development at U10 Shah Alam, Alam Flora Garbage collection are, among others, that become the center of attention in this nation due to the widespread of information through the mainstream media and new media, namely *blogs*, social networking (i.i. Facebook, Twitter, LinkEd) and more recent are WA as well WC.

Due to the feasibility factors, the samplings of this study are randomly chosen among, the Environmental Control Officers and Assistant Environmental Control Officers

(later is cited as ECOs and AECOs) who work at the state office and branches of the Department of Environment in Malaysia. Due to time constraints, this study was able to distribute its questionnaires at every state office and branches in peninsular Malaysia except for Johor only.

1.7 Keywords Definition

1.7.1 Negotiation Approach (NA)

In this study, particularly, the term negotiation approach consists of two types, which are integrative and distributive approach. The term of negotiation approach and negotiation strategies have been used interchangeably. This study gives an emphasis on the negotiation approaches' definition into integrative and distributive approach only.

1.7.1.1 Integrative Approach

Ever since negotiation is differed between integrative and distributive (Walton & McKesie, 1965), there is no clear evidence that suggests integrative as superior over the distributive in the negotiation. Rather, integrative approach is seen as better compromises, win-win solution, value creation and expanding the "pie" (Fisher & Ury, 1983; Hollander-Blumoff & Tyler, 2008). In contrast, distributive approach is viewed as being competitive, win-lose outcome, zero-sum, pure conflict which leads one party to gain more of the other party's losses (Kersten, 2001).

1.7.1.2 Distributive Approach

Distributive is perceived as competitive which depends highly on the tactics and strategies employed in the negotiation that is merely based on the fixed-pie, as opposed to expanding the pie, as well as ignorance of any commonalities is possible (Thompson, 1996; Kersten, 2001).

1.7.2 Initial Position (IP) in Conflict

The term "position" refers to a stance taken on an issue by the conflicting parties, having had the underlying interests also known as needs (Gatelier, 2012). Positions are located in the realm of communication and interaction as they are the articulation by the conflict parties of the often-complex factors that make up a conflict. Positions are usually informed by an actor's perceived needs, but also by the actors' location in a particular conflict or negotiation setting: they are based on their understanding of the setting, the opportunities it presents for them as well as what constraints are present within the scope of the conflict or negotiation.

It is found that the process of conflict resolution involves parties whom ideas and positions are imposed on each other (Sanson & Bretherton, 2001). In so doing, this study views initial positions as one possible solution in which the interest underlies the negotiation and deliberation of opposing positions. The interests include needs, wants, fears and concerns have to come forward through a process of disclosing where each party is aware of the conflict and each party's initial positions.

As a result, this study identifies the initial position of the respondents during the negotiation they had in the past one year. There are five levels altogether namely, 1) position of having the intention to solve the problem (problem to solve); 2) disagreement (disagreement); 3) more challenging position (contest); 4) fighting level of position (fight); and lastly is 5) heading towards intractable type of position (intractable).

1.7.3 Communication Medium (CM)

Communication medium refers to the mean of delivering and receiving data or information. While there is, a greater number of studies examining the characteristics of the medium, studies examining the rationality of choice of the communication medium in the negotiation are still lacking (Geiger & Parlamis, 2014). Therefore, this study refers the communication medium as an agent of communication in the negotiation that occurs between the environmental control officers and the other conflicting parties of the particular environmental cases.

1.7.4 Environmental Cases

The term that is used to describe the disagreement may be various depending on the magnitude of impacts, namely issues related, conflict or crises. This study, however, emphasizes on the environmental cases that specifically refers to the disagreements in the light of enforcement and safety in the context of environmental cases in Malaysia. According to Ybarra and Ramon (2004), conflict is defined as disagreements that occur due to differences of ideas and interest between two parties or more. The study of conflict involves multiple perspectives such intrapersonal (personality), interpersonal (between individuals) (Northouse, 2011), and societal that refers to disagreements that occur between societies and nations (Committee Against Repression in the Pacific and Asia (CARPA), 1988).

Throughout this study, the words "environmental cases" are used in the light of environmental conflicts, which allow the inclusion of more general type of cases handled by the environmental control officers in Malaysia. Some issues were more localized while the others may be at the national level of issues such as Lynas at Gebeng, Pahang in 2010 and Incinerator Project at Broga, Selangor in 2002.

The cases are known as air pollution, water pollution, hazardous substances and scheduled waste. Referring to Recommended Malaysia Air Quality (RMG), air pollution is defined as concentration limits of selected air pollutants which might adversely affect the health and welfare of the general public through a development of Air Quality Index System known as the Malaysia Air Quality Index (MAQI). An index system plays an important role in conveying to both decision makers and the general public the status or ambient air quality, ranging from good to hazardous.

Water pollution is divided into three which are seawater, river water and groundwater. The monitoring programme for sea water involves *in-situ* measurements of water quality parameters such as temperature, pH, dissolved oxygen, conductivity, salinity, turbidity and tar balls, and laboratory analyses of parameters such as Escherichia coli, oil and grease, total suspended solids, arsenic, cadmium, total chromium, copper, lead and mercury. The frequency of sampling carried out is between four to six times per year. This monitoring activity provides important information not only on the status of marine water quality but also to assist in the management of the recreational waters and marine ecosystem.

River water monitoring has been established since 1978, primarily to establish baselines and to detect water quality changes in river water quality and has since been extended to identifying of pollution sources as well. A total of 1,064 manual stations located within 143 river basins throughout Malaysia. Water quality data were used to determine the water quality status weather in clean, slightly polluted or polluted category and to classify the rivers in Class I, II, III, IV or V based on Water Quality Index (WQI) and Interim National Water Quality Standards for Malaysia (INWQS) every year. Water Quality Index (WQI) is computed based on six main parameters namely Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD); Ammoniacal Nitrogen (NH3N), pH, Dissolved Oxygen (DO) and Suspended Solids (SS).

The National Ground Water Monitoring Programme was established in 1997 and presently monitoring programme being carried out at 78 wells in Peninsular Malaysia, 12 wells in Sarawak and 15 wells in Sabah (Table 4.1). The sites were selected based on specific land uses such as agricultural, urban/suburban, rural, and industrial and sites of special interests such as solid waste landfills, golf courses, animal burial areas, municipal water supply and ex-mining (gold mine).

A scheduled waste refers to wastes that are potentially harmful and bring negative impacts on the public and the environment. There are 774 types of scheduled wastes listed under the First Schedule of the Regulations of the Environmental Quality (Scheduled Wastes) Regulations 2005, and the management of waste shall be in accordance with the provisions of the said regulation. While hazardous substance is about anything that can have an adverse effect on health which include poisons, substances that cause burns or skin and eye irritation, and substances that may cause cancer. Many hazardous substances are also classified as dangerous goods and categories namely extremely hazardous substances, carcinogenic substances, gaseous

and volatile organic substances, gaseous and vaporous inorganic substances and particulate inorganic substances.

1.7.5 Department of Environment (DOE), Malaysia

DOE was initially established as Environmental Division under the Ministry of Local Government and Environment on 15th April 1975. On March 2004, DOE was placed under the Ministry of Natural Resources and Environment. The establishment of DOE has to follow the Environmental Quality Act 1974 was enacted in March 1974 and was enforced on 15th April 1975. The main function of the DOE is to prevent, eliminate, control pollution and improve the environment, consistent with the purposes of the Environmental Quality Act 1974 and the regulations there under DOE is also responsible for the implementation of the resolutions decided by the conventions of the international environment such as Vienna Convention for the protection of the Ozone Layer 1985, Montreal Protocol on Substances That Deplete the Ozone Layer, 1987, the Basel Convention on the Transboundary Movement of Hazardous Waste and Their Disposal Act 1989 and other areas while the success of programs of bilateral cooperation and multilateral cooperation between Indonesia, Singapore and other ASEAN countries on environmental management. Core services implemented by the DOE Headquarters Divisions, states and branche.

While the Headquarters give emphases on the management, development and planning, the primary function of DOE States Offices are; 1) to implement the enforcement program EQA 1974 and the regulations promulgated thereunder; 2) to conserve and enhance the quality of the environment, 3) to monitor and control of air pollution from factories, vehicles and open burning; 4) to provide advice to developers development.; 5) to provide input and advice to the State Government and local authorities in the planning of development projects; 6) to carry out an investigation into alleged environmental contamination; and 7) to process the Environmental Impact Assessment (EIA).

1.8 Conclusion

In conclusion, this research wishes to seek an understanding in the relationship between the type of negotiation approach and the choice of communication medium among environmental control officers in Malaysia. Despite the relationship that exists between these two variables, this study also examines the initial position as the covariance that is hypothesised to have effects on the relationship between the negotiation approach and the choice made on the communication medium. The definition of main keywords of this study is given to clearly lead the readers to the context of environmental cases that are actually confronted by the environmental control officers involved in this very study. The constructs of these variables are explained explicitly through the work of the literature review in Chapter Two and Three.

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BIODATA OF STUDENT

Norhayati Rafida A. R. has made tremendous achievement throughout her services at Universiti Sains Islam Malaysia (USIM) since 2002. She has made great contributions to knowledge by her publications and in 2003; *The Practice of Human Communication* is her first book with McGraw Hill. Besides, she is actively involved in researches activities, conferences, and consultancies, journals in both ISI and Scopus respectively. She has high interest in Negotiation and Human Communication which turns to be the niche area of her PhD Thesis. She was working with industries for seven years before joining USIM in teaching and learning. She has vast experiences in public relation, event managements, public speaking, and marketing communication and training. PhD completion is undeniably amazing that she can never imagine to happen. May more achievements come along the way of her career path and living with love, prosperity and joys.



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