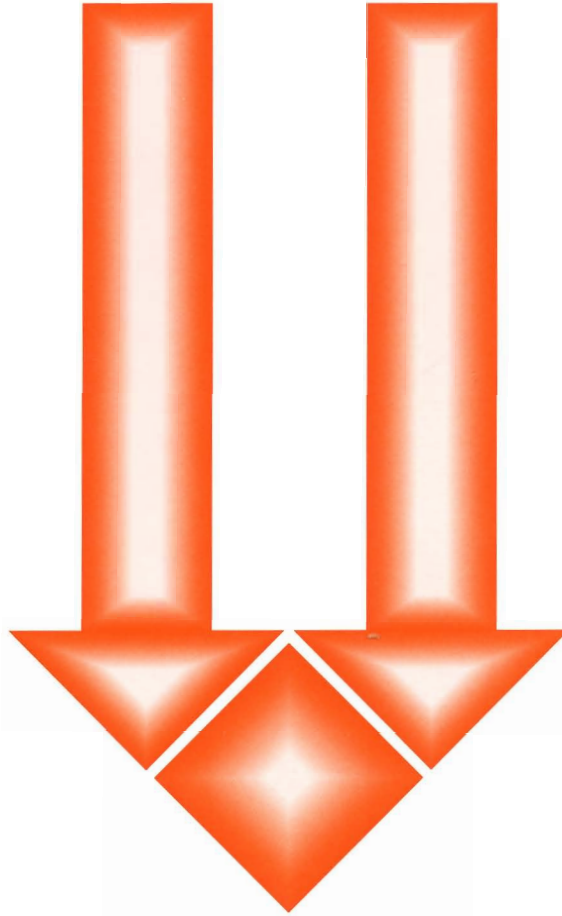


Program on Conflict Analysis and Resolution

Occasional Papers

1

**A Journey from the Laboratory to the Field:
Insights on Resolving Disputes Through Negotiation**



by

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July, 2001

**Sabancı
Universitesi**

PREFACE

Sabancı University is an English-speaking private institution of higher learning that encourages interdisciplinary teaching and research. It offers undergraduate and graduate programs in the Arts and Social Sciences; Engineering and Natural Sciences; and graduate programs in Management Sciences.

The Faculty of Arts and Social Sciences is making a substantial investment to develop a Conflict Analysis and Resolution program, designed to provide graduate-level education for Turkish and foreign students, particularly those from Southeastern Europe. Consistent with the philosophy and mission of the University, it aims to take a regional lead in providing support for peacemaking and conflict prevention schemes on the ground.

The master's program in Conflict Analysis and Resolution, initiated in Fall 2000, has the following goals and objectives:

- To present students with an analytical perspective that will enable them to define objective parameters as well as perceptual and psychological context of conflicts.
- To equip students with theoretical understanding and practical skills in conflict resolution to assist them in managing conflict situations in a creative and constructive way. Various approaches to conflict resolution and conflict management techniques are introduced, such as negotiation, mediation, problem solving techniques, and track-two diplomacy.
- To encourage students to apply their conflict resolution background to policy issues related to disputes in or among governments, organizations, civil society, or corporations.

The international dimension of the program takes into consideration the changing nature of diplomacy in the post-Cold War era. In this context, it treats different frameworks of conflict resolution as a tool to study and generate alternative foreign policy options.

The Faculty of Arts and Social Sciences is determined to pursue these objectives in an effective way by building international institutional networks and strategic alliances with universities and NGOs.

The Occasional Paper series on Conflict Analysis and Resolution reflects Sabancı University's commitment to the study and practice of conflict management.

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Daniel Druckman is professor of conflict resolution at George Mason University's Institute for Conflict Analysis and Resolution where he also coordinates the doctoral program. He directed a number of projects at the National Research Council and held senior positions at several research-consulting firms. In addition to his work on nationalism, he has published widely on such topics as negotiating behavior, group processes, peacekeeping, political stability, nonverbal communication, and modeling methodologies, including simulation. He received the 1995 Otto Klineberg award for Intercultural and International Relations from the Society for the Psychological Study of Social Issues for his work on nationalism and a Teaching Excellence award in 1998 from George Mason University. He currently sits on the boards of six journals including the Journal of Conflict Resolution and the American Behavioral Scientist. He is also an associate editor of Simulation & Gaming and the Negotiation Journal. He is the editor of the special issue of American Behavioral Scientist on "Public and Private Cooperation in the Beltway," published in August, 2000 and co-editor of the recent National Research Council book on "International Conflict Resolution After the Cold War," in which he also authored chapters.

A Journey from the Laboratory to the Field: Insights on Resolving Disputes Through Negotiation

Daniel Druckman

I am going to present a collage of my research on negotiation. Using a variety of analytical approaches, the research spans several decades of work and, although it has not been my only area of research and writing, it is the topic that I most consistently attended to, with work beginning in graduate school in the 1960s and continuing with publications in 2000. I do hope that you will indulge me in a few reminiscences about the long journey that I have taken while working in several different organizational contexts: including two research institutes [the Institute for Juvenile Research & the International Institute for Applied Systems Analysis], two for-profit consulting firms [Mathtech, Booz.Allen & Hamilton), a non-profit science policy organization [the National Academy of Sciences], and a graduate department at a university [George Mason's Institute for Conflict Analysis and Resolution].²

I would like to give you a sense of where some ideas for research on conflict resolution come from and how these ideas are investigated in various settings with different methods. It has been particularly interesting for me to move in my work from smaller to larger numbers of experiments or cases, to regard an experiment (with replications) or a case as a data point in a larger analysis design. It has been just as interesting to move in the opposite direction – to apply theoretical ideas developed in conjunction with experiments to the analysis of single complex cases. By taking you on this journey, I hope to convey the value of doing basic, theory-inspired research at the close of a millennium of scientific progress. The paper is organized in six parts: bargaining flexibility, from research to application, models of responsiveness, values and interests, dimensions of international negotiation, and turning points. Each part concludes with lessons learned from the research on that topic. I then conclude with a discussion of the key themes emphasized in this program, spanning more than three decades of research on negotiation and related processes.

Bargaining Flexibility

I begin with a **flash back** to the early to mid-1960s when I was a graduate student in Northwestern University's psychology department and a graduate research assistant on the cooperative cross-cultural study of ethnocentrism (LeVine and Campbell, 1972).

Negotiating as representatives of groups. Among the many ideas that I was exposed to on the ethnocentrism project, the human relations training program implemented by Robert Blake and Jane Mouton caught my attention. They shared our ethnocentrism project's interest in emotional attachments to groups. At the time I was also learning to become an experimentalist, which was the predominant emphasis in the Northwestern psychology department's culture of that era. An important part of the training consisted of being schooled (actually drilled) in the use of **the analysis of variance (ANOVA)**, thanks in large part to Albert Erlebacher's statistics classes and Benton Underwood's course on verbal learning as well as his book on psychological research (Underwood, 1957). So strong was the belief in classical designs, that deviation from the paradigm – even to quasi-experimental designs -- was regarded with scorn. Simply put, it was nearly impossible for experimental and social psychology students to do a non-experimental dissertation project³ It was the starting point for my investigations of negotiation -- a quest that has led to case study research, but even here the experimentalist's concern for analytical rigor is evident as you will see.

Blake and Mouton's **single-factor explanation** for inflexibility in bargaining – in terms of representing groups -- contradicted the idea of separating the components of variation (as main effects and interactions) in a dependent variable. You may recall their studies, mostly reported in the early 1960s and sponsored by the Gulf and Esso Oil Companies, on human relations training in company contexts. Their experiments were conducted with 520 participants organized into 62 groups of varying size, ranging from 18 to 36 people. The groups engaged in a parallel sequence of activities focusing on intergroup competition. The sequence of activities consisted of, first, developing autonomous groups (ten to twelve hours to build a cohesive identity), creating intergroup competition (three hours for each group to develop its own approach to the assigned problem), clarification of group positions (one to two hours spent in ingroup discussion, evaluation of the merits of each solution, and

election of groups representatives), and determining a winner and loser (representatives from contending groups attempted to reach a decision on which was the more adequate solution). Discussions continued until a decision was reached, namely, agreement on which group produced the better solution or deadlock. If deadlock ensued impartial judges were asked to render a verdict. Sixty of the 62 group representatives deadlocked by standing firm on their own group's product (see Blake and Mouton, 1962).

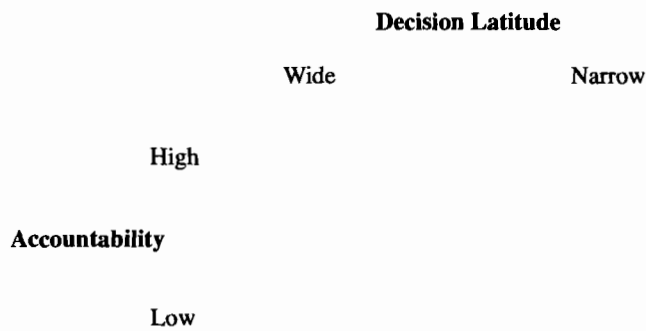
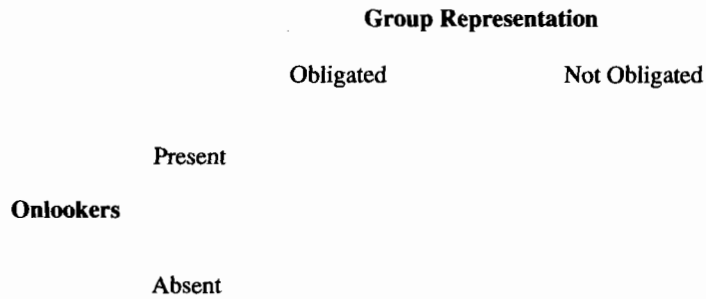
They interpreted their findings in terms of the impact of constraints on **group representatives** that prevent them from reaching agreement. Additionally, they claimed that their results showed that membership identification (per se) influences perception, judgment and cognition of competitive group products in predictable directions (Blake and Mouton, 1961). The work has been widely cited (1572 citations just from 1972 forward). This conclusion was in keeping with similar findings reported in studies done in the 1960s by the Sherifs (1965), Bass and Duntzman (1963), myself (Druckman, 1968) and others. More recently this line of research was conducted with Tajfel's (1982) minimal group paradigm (MGP), and the MGP took over, in the 1980s, from the venerable prisoner's dilemma, popular in the 1960s and 1970s, as the most widely used **laboratory** task for studying interpersonal and inter-group relations.

A close look at the Blake and Mouton procedures revealed several alternatives to their interpretation of the findings. Group representation was confounded with a number of other sources of variation: in particular, the representatives' attitudes toward compromising and whether they studied or strategized about the issues to be negotiated in pre-negotiation sessions. The representatives in their intergroup experiments shared certain rated behavioral characteristics that distinguished them from non-representatives and they participated with their group in long unilateral strategic planning sessions prior to the intergroup negotiation. Thus, the results could have been due either to attitudes toward compromise or to strategizing rather than to being a representative per se. This revelation led me, as a 20s-something graduate student in a methodologically self-conscious department, to think about providing clarification for these interpretations through the time (Northwestern)-honored approach of experimentation.⁴ The clarification began by asking a question at the heart of **behavioral social psychology**: What are the relative influences on negotiating (and similar conflict-resolving) behavior of the person (attitudes), role (as representative), and situation (pre-negotiation experience)? This question was the basis for my dissertation project, which consisted of embedding an experiment in a simulation of collective bargaining. Contrary to Blake and Mouton's interpretation of their findings, these results indicated that the pre-negotiation manipulation (strategizing or studying the issues) and attitudes toward compromise were significant but that the representation manipulation was not (Druckman, 1967).⁵

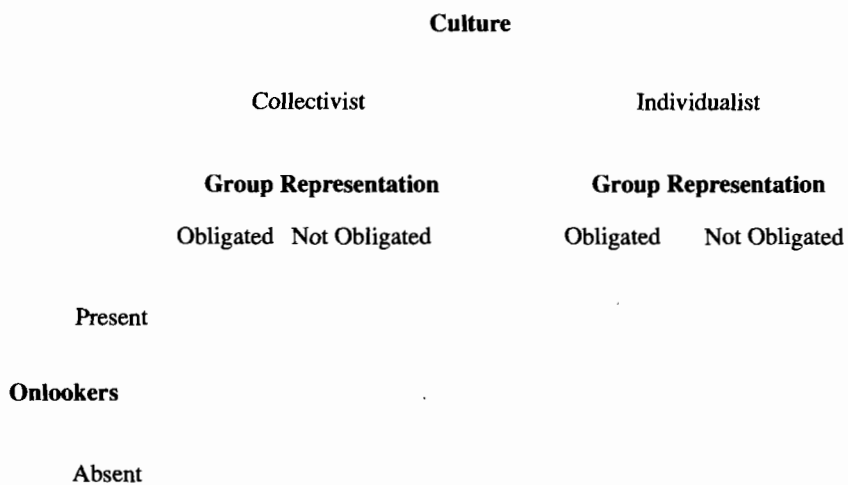
Following my dissertation work, my colleagues and I at the Institute for Juvenile Research (IJR) conducted a series of **experiments** in which **group representation** was manipulated in conjunction with such other aspects of the situation as pre-negotiation experience, audiences, instructional set, decision latitude as own vs. assigned positions, and the evaluative implications of various types of accountability to constituents as well as such background variables as attitudes toward compromise (and related definitions of the situation) and culture. In these studies only a few variables (never more than four) were created in the **factorial** (ANOVA) designs suitable for testing hypotheses about main effects and interactions. A variety of research designs were created such as the 2 x 2 and 2 x 2 x 2 forms shown in Figure 1. (Many of these designs were carried out at the Institute; still others remain on the drawing board.) We also used a variety of board game and simulation tasks in which opposing negotiators attempted to resolve conflicting interests over the way resources were distributed between them. The simplest task consisted of making sequential offers for the distribution of chips with monetary values until the negotiators agreed on a division between them (e.g., Druckman et al., 1972; Druckman et al., 1976a). The more complex tasks placed negotiating representatives in the roles of political decision makers responsible for assigning budgetary resources to alternative programs (e.g., Zechmeister and Druckman, 1973; Druckman et al., 1977).

Figure 1. Some Factorial Designs

a. 2 x 2 designs



b. 2 x 2 x 2 design



The effects for the group representation variable on negotiating flexibility were inconsistent from one experiment to another. Sometimes the effect was contingent on a variety of other aspects of the negotiating situation such as the relationship between the representative and her constituents (more competitive when hierarchical), when there was no salient option that allowed them to resolve the dilemma of satisfying the other side's demands as well as those of their constituents, and the extent to which constituents had control over the distribution of resources and positions taken by the delegates. Other-times the effects of group representation were trumped by other variables included in the design such as orientation toward the task, pre-negotiation preparation, or culture.

What was IJR? It was a Chicago-based institution chartered in 1909 by the State of Illinois to study Juvenile Delinquency. It was particularly notable for early research (in the 1920s-1940s) on the sociology of urban gangs. However, its research heyday was in the 1960s to early 70s when I was on the staff of the research program -- for nine years (1966-1975) -- as a senior research associate and program director of the social-psychology/conflict management program. It also had a large clinical operation and I conducted, with Tom Bonoma, one of the early conflict resolution workshops to address conflicts between the three clinical professions at the institute (clinical psychology, social work, and psychiatry). The results appear in an issue of the International Journal of Group Tensions (Druckman and Bonoma, 1977). I also participated with Herbert Kelman, Leonord Doob, and Stephen Cohen in one of the early panels on workshops at the New England Psychological Association in 1971

I continue with a **flash forward** to the 1990s.

Meta-analysis. It took about 25 years since my dissertation work was completed in 1966 to accumulate enough experiments for a robust evaluation of the effects of group representation relative to the many other variables shown also to influence negotiating behavior. It became possible to do this sort of evaluation with the advent of meta-analytic techniques. Meta-analysis is a statistical approach to cumulating findings across many experiments in a domain such as bargaining. The initial applications occurred in the late 1970s (see Glass et al., 1981). This is a very labor-intensive approach to analysis. Over the course of three years, I was able to sort the published studies into ten independent-dependent variable categories and perform the computations needed to ascertain the relative size of effects. The impact of each of ten independent variables was assessed on two dependent variables, compromising behavior and time to resolution or settlement. The effects were evaluated by computing effect sizes.

The effect size is a correlation coefficient. It is calculated by formulae that convert significance-test ratios (t-tests, F-tests, chi-square) used to compare two conditions at a time (Wolf, 1986). The coefficient is then a common metric suitable for comparing results from different studies. Usually an average is taken, based on the effect sizes calculated from all the studies within an independent-dependent variable category (e.g., pre-negotiation experience on time to resolution; time pressure on compromising behavior) and these are shown in Tables 1 and 2.

Table 1. Average Effect Sizes for Variables on Compromising Behavior

Variable	No.of Studies	Effect Sizes (ES)	Variation*	Range of ES
Orientation	9	.42	.15	.66 - .21
Prenegot. exp.	14	.37	.11	.48 - .17
Time pressure	6	.37	.10	.54 - .26
Position distance	10	.35	.18	.74 - .10
Other's strategy	11	.32	.18	.57 - .20
Representation	9	.30	.14	.53 - .05
Accountability	6	.27	.05	.34 - .19
Framing	4	.21	.14	.29 - .10
Size of issues	8	.18	.21	.40 - .30
Visibility	9	.17	.20	.45 - .20

* These are standard deviations (SD); the larger the SD, the more variation in the ES across the studies

Adapted from Druckman (1994)

Table 2. Average Effect Sizes for Variables on Time to Resolution

Variable	No.of Studies	Effect Sizes (ES)	Variation*	Range of ES
Time pressure	4	.43	.16	.65 -.30
Size of issues	4	.43	.28	.68 -.09
Prenegot. exp.	11	.34	.13	.67 -.05
Representation	5	.26	.28	.56 --.10
Accountability	4	.21	.12	.32 -.06

* These are standard deviations (SD); the larger the SD, the more variation in the ES across the studies

Adapted from Druckman (1994)

Comparing the various effect sizes with ANOVA, I discovered three clusters with orientation (viewing the negotiation as a contest or as a problem to be solved), pre-negotiation experience (preparing for the negotiation either by studying the issues or by developing strategies), and time pressure (either a deadline or costs imposed for time spent negotiating) producing the strongest effects; size of issue (central or peripheral issue) and visibility (audience present or absent during negotiation) the weakest. Note that representation (representing a team or organization or only oneself) and accountability (outcomes do or do not have consequences for constituents) are relatively weak on both the compromising and time to settlement measures. I also evaluated the impacts of the **framing** manipulations derived from prospect theory, which was quite popular in the 1980s and 1990s. Emphasizing either gains or losses likely to be incurred from the bargaining, these manipulations were performed in experiments by Bazerman and his colleagues (e.g., Bazerman et al., 1985). Contrary to the investigators' interpretation of their own findings, these studies produced a weak effect size (.21) across the four studies that provided relevant information.

Simply stated, the strongest variables are those that encourage bargainers to view the situation as a competitive contest – orientations, pre-negotiation preparation, time pressure. The weaker variables, including group representation, leave open the possibility that the cooperative pursuit of solutions (rather than winning) is the purpose of the bargaining task. The strong effect sizes for the former variables are a result of a clear difference between the conditions of the variables, namely, developing strategies lead to competitive negotiating behavior while studying the issues lead to cooperative behavior. The weak effects for the latter variables occur because the difference between the conditions of the variable are not clear, namely, some group representatives are cooperative and some of the negotiators representing only themselves are competitive.

It is interesting to note some similarities between the effect sizes obtained in this analysis and those obtained in meta-analyses conducted on related topics. The effect sizes for the stronger variables in this study (ranging from .34 to .43) are comparable to those obtained in Freeberg and Rock's (1987) analysis of team performance and Johnson et al's (1981) analysis of goal structures (cooperative, competitive, individualistic); relatively strong effect sizes were obtained for the team (pre-negotiation experience) and orientation variables in all these analyses. The effect sizes for the weaker variables in this study (ranging from .17 to .32) were similar to those obtained for the behavior categories in Harris and Rosenthal's (1985) analysis of expectancy effects.

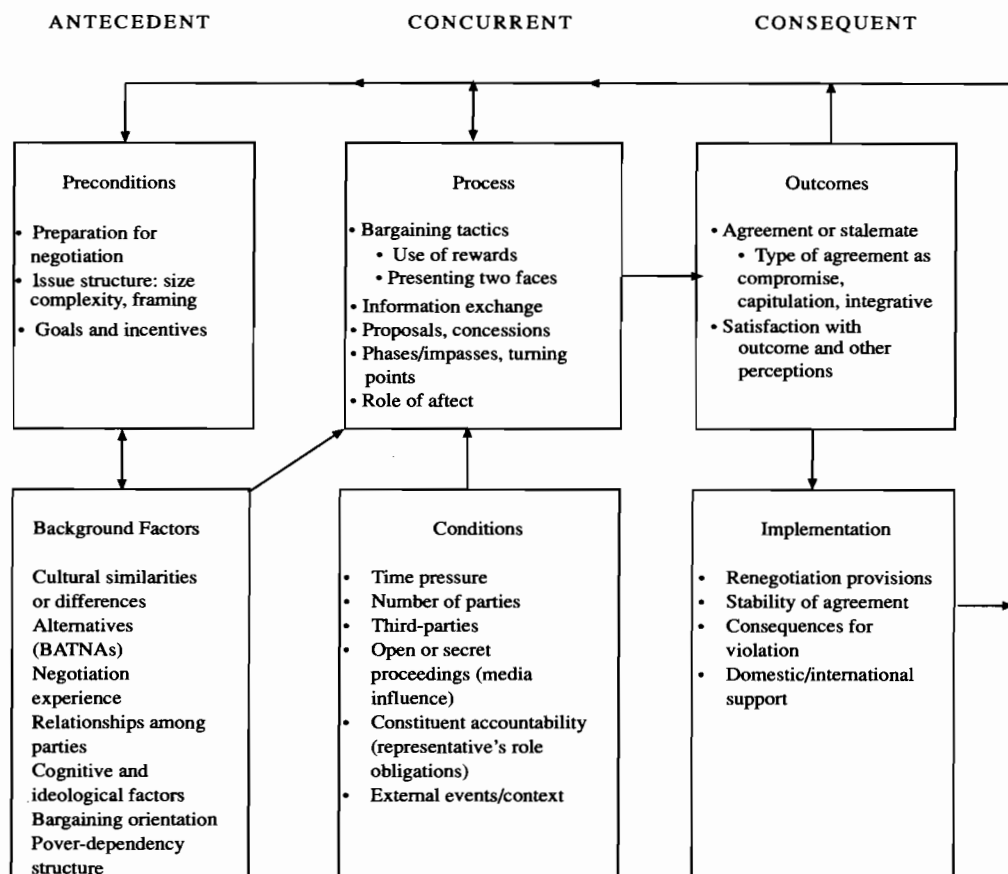
Another advantage of meta-analysis is the comparison of **outliers**. These refer to the studies within each independent-dependent variable category that produce the smallest (e.g., .05) and largest effect sizes (e.g., .67). An outlier analysis is especially appropriate when there is a range of effect sizes as might be expected when the

studies (within a conceptual category) are somewhat heterogeneous in procedures, as is the case here. By comparing the methods used in these studies (for each category) we can get a handle on the aspects of those procedures that account for the different results, leading to a more specific rendering of the conditions needed to get strong effects.

For example, representation effects may be due to the relationship between the representative and his/her constituents or validators (as hierarchical or not); the accountability effect may be stronger when the constituents also evaluate the representatives' performances and the stakes involved in such an evaluation are high; the inflexibility resulting from pre-negotiation strategizing (vs. studying the issues) may be due to differences in team cohesion (cohesive study groups may be just as inflexible as strategy groups); visibility or audience effects decrease flexibility when negotiators fear a loss of face, and the effects obtained for the other's strategy (whether she exhibits tough or soft behavior) may be due to the clarity of his/her intentions, i.e., when the tough opponent is understood to be exploitative, the soft one cooperative, and this takes time to discern (see Druckman, 1994 for more outlier analyses).

Internal and external validity. Although reasonably strong on internal validity criteria, which is defined as clarity of causal inferences, the experiments used in the meta-analysis may be weak on external validity, defined as relevance to other, more complex negotiating situations. Rather than manipulating one or a few variables at a time, while keeping others constant, many actual negotiating situations consist of a combination or "package" of variables that operate together. This is more like the way frameworks (rather than experiments) are constructed. A good example is the framework developed originally by Sawyer and Guetzkow (1965). Shown in Figure 2, this framework connects pre-conditions and background factors (antecedent variables) with processes and conditions (concomitant variables), and outcomes, including provisions for implementing agreements (consequences of negotiation). Relationships among the variables are both linear (from pre-conditions to processes to outcomes) and recursive (from outcomes back to pre-conditions). The factors in the boxes are the variables that have received attention in the empirical research literature. It has been used as an architecture for organizing research literature and for conceptualizing the various facets of complex cases.

Figure 2. A Framework of Influences and Processes of Negotiation



I got to know this framework well. I was asked, in 1971, by the Academy for Educational Development, to update the review provided by Sawyer and Guetzkow (1965). My update, which later became a Sage international studies monograph (Druckman, 1973), was organized in terms of an adaptation of the framework shown in Figure 2. . This experience increased my appreciation for **synthesis**, for piecing together the many parts of negotiating situations and processes. I argued that it is possible to develop a broad perspective on negotiation without forfeiting analytical rigor. Experimental findings can contribute to, and are informed by, integrative frameworks. A similar framework was also used to organize the topics treated in my edited book on negotiation published by Sage (Druckman, 1977). And, it helped me to organize complex multilateral negotiations that took place during the 1970s in my role as a consultant to the US delegation to the Mutual and Balanced Force Reduction talks (MBFR). (See also Bonham, 1971, and Ramberg, 1978, for similar case applications.)⁶

I am now going to **flash forward again** to the 1990s and Vienna, Austria.

Situational levers. With the idea of synthesis in mind, I decided to develop a different research strategy, one that emphasized external validity while retaining the key benefit of experimental design, which is interpretability of findings. This work was done at the International Institute for Applied Systems Analysis [IIASA] an international organization housed in Maria Theresa's summer palace near Vienna, Austria. Unlike Maria Theresa, who was governing a nation, and Johann Strauss, whose waltzes were played at the palace, I wondered whether I could differentiate the stages of a negotiation process during which many of the variables in the framework shown in Figure 2 had their primary impacts on negotiating decisions. I was also motivated in this work by the practical goal of identifying those aspects of the negotiating situation that could be controlled (for positive impacts on the process) by the negotiators themselves. Here is what I came up with.

The variables that were embedded within stage scenarios of a simulation of multilateral environmental talks are shown in Table 3. There were roughly six variables per stage of a four-stage process, referred to as pre-negotiation, setting the stage, the give-and-take, and an endgame. The experimental feature of the design is retained in comparisons between alternative scenarios: for example a set of variables geared toward producing flexibility (negotiate in private) compared with the same set geared toward inflexibility (negotiate in public) and with a set of variables geared toward flexibility in the first three stages and toward inflexibility in the endgame. The participants were environmental scientists and diplomats who played the roles of conference delegates and made decisions about their delegation's positions on the issues in each stage. We also asked about perceptions of the situation and tactics. (They did not actually bargain.)

Table 3. Variables by Stages of Negotiation

Stage	Variables
Prenegotiation Planning	Negotiating positions linked or not linked to political ideologies Primary delegation representative or advisor to the delegation Strategizing or studying the issues Familiar or unfamiliar with others' positions Amiable or antagonistic relations among parties
Setting-the-Stage *	Central or peripheral locations Formal or informal sessions Seeking comprehensive or partial agreements Power symmetries or asymmetries between parties
Give-and-Take **	Salient solutions can or cannot be found Many or few concessions made by other parties Innovative or non-innovative conference leadership Heavy or light media coverage
The Endgame * * **	Deadline or no deadline Attractive or unattractive alternatives Mediator-suggested solutions or not

* The variables of representation, familiarity, and relationship are repeated in this stage

** The relationship variable is repeated in this stage

*** The variables of salient solutions and media coverage are repeated in this stage

In order to ascertain the relative importance of the variables within each stage, we used a pair-comparisons procedure similar in some ways to ANOVA for factorial designs. Role-players were asked to compare each variable with each of the other variables contained within the stage scenarios in terms of which produced more or less flexibility. The procedure produces weights for each variable in each stage. The result of this work was trajectories of variables toward agreement and toward impasse. The trajectories highlight the variable with the strongest weight in each of the four negotiation stages. The trajectories for the scientists are shown in Figure 3. These variables are referred to as **situational levers** of negotiating flexibility. Although being a group representative did not reduce flexibility, being an advisor without the constraints of representation did increase flexibility in the first stage. (Details of this work are discussed in Druckman, 1993, 1995.)

Figure 3. Situational Levers: Trajectories toward Agreement or Stalemate

Flexible Decisions to Agreement: *

Friendly relations (stage 1) --> peripheral location (stage 2) --> limited media coverage (stage 3) --> limited media coverage (stage 4)

Inflexible Decisions to Stalemate:

Lack of familiarity (stage 1) --> central location (stage 2) --> extensive media coverage (stage 3) --> extensive media coverage (stage 4)

* Variables with the highest weighting in each stage of the negotiation

A replication study, conducted with my son (Druckman and Druckman, 1996), in which role-players actually bargained, showed that the most important variables were location of the talks (central or peripheral location) and media coverage (extensive or limited). Simply stated, negotiators are more flexible, in terms both of achieving compromise and integrative agreements, in private talks. Note here that the visibility variable is quite strong in contrast to the weak audience effect sizes obtained in the meta-analysis discussed above (see Table 1)

Another question of interest is: Which produces stronger effect sizes, combined factorial-design experiments or the combined variables embedded in simulation scenarios? The combined effect sizes for the experiments of .31 on the compromising measure compares to .59 (combined samples) for the simulation, a huge difference of .28. The stage-by-stage comparisons (for only those variables included in each stage) also showed large differences between the simulation and meta-analytic results (differences in of .12, .12, .28, and .21 respectively as shown in the Table 4). Thus, the combined variables embedded in the simulation packages, which are presumably more similar to actual negotiations, had stronger effects on negotiating behavior than did the cumulated experiments that manipulated these variables one or two at a time.

Table 4. Simulation vs. Meta-Analysis Effect Sizes by Stage

Stage	Simulation	Meta-Analysis	Difference
Pre-negotiation preparation	.37	.25 *	.12
Setting-the-stage	.43	.31 **	.12
Give-and-take	.59	.31 ***	.28
Endgame	.53	.32 ****	.21

* based on 32 experiments that manipulated the variables included in the first simulation stage

** based on 25 experiments that manipulated the variables included in the second simulation stage

*** based on 12 experiments that manipulated the variables included in the third simulation stage

**** based on 12 experiments that manipulated the variables included in the fourth simulation stage

Adapted from Druckman (1993)

What is IIASA? This is an international research organization supported by roughly 16 member governments, including the United States (through the American Academy of Arts and Sciences). Founded in 1972, IIASA was conceived as a scientific communication link between the West and East. Its first director was Howard Raiffa, author of the well known book, "The Art and Science of Negotiation" (1982). Through the years the Institute has focused its research agenda primarily on environmental issues. The research is conducted by teams of scientists from a variety of disciplines and from each of the member countries. Graduate students from around the world have an opportunity to participate in the Institute's projects through the Young Scientists Support Program. From 1990-1993, I was a member of the research team on the Program on International Negotiation (PIN). Other participants in the program during that period included I. William Zartman (US), Victor Kremenyuk (Russia), Guy Olivier Faure (France), Gunnar Sjostedt (Sweden), Jeffrey Rubin (US), Winfried Lang (Austria), and Bert Spector (US).

In conclusion

Following are some of the insights suggested by the research discussed in this section.

1. The critical experiment is an illusion. Confidence in analytical knowledge comes from the cumulation of experiments done at different times and in different places. The experimental enterprise is self-sustaining and generative with ideas for new experiments coming from previous results and from the examination of outliers in a meta analysis.
2. The impact of experimental variables (as indicated by effect size) is likely to underestimate their influence in non-laboratory settings where they combine with other variables.
3. Contrary to Blake and Mouton's claim, group representation effects are generally modest when compared to other aspects of the negotiating situation such as orientations to the negotiating task or pre-negotiation experience. The research findings argue against single-factor explanations of negotiating behavior.
4. The strong situational impacts, shown in the negotiation experiments, support Lewin's "principle of contemporaneity." This refers to peoples' reactions to the psychological field as it is perceived at the moment (Lewin, 1951).

More generally, the empirical evidence on bargaining accumulated through the years, by myself and others, support my view about the powerful impact of situations on behavior. This view is enunciated most clearly in my 1999 Leonard Davis Institute (at the Hebrew University) occasional paper titled "The Role of the Leader in International Relations: Challenging Person-Centered Analyses of Political Behavior." In this regard, see also my review article on "The Influence of the Situation in Inter-party Conflict" published in a 1971 issue of the *Journal of Conflict Resolution*. This paper is a forerunner to the work on situational levers and the meta-analysis discussed in this section.

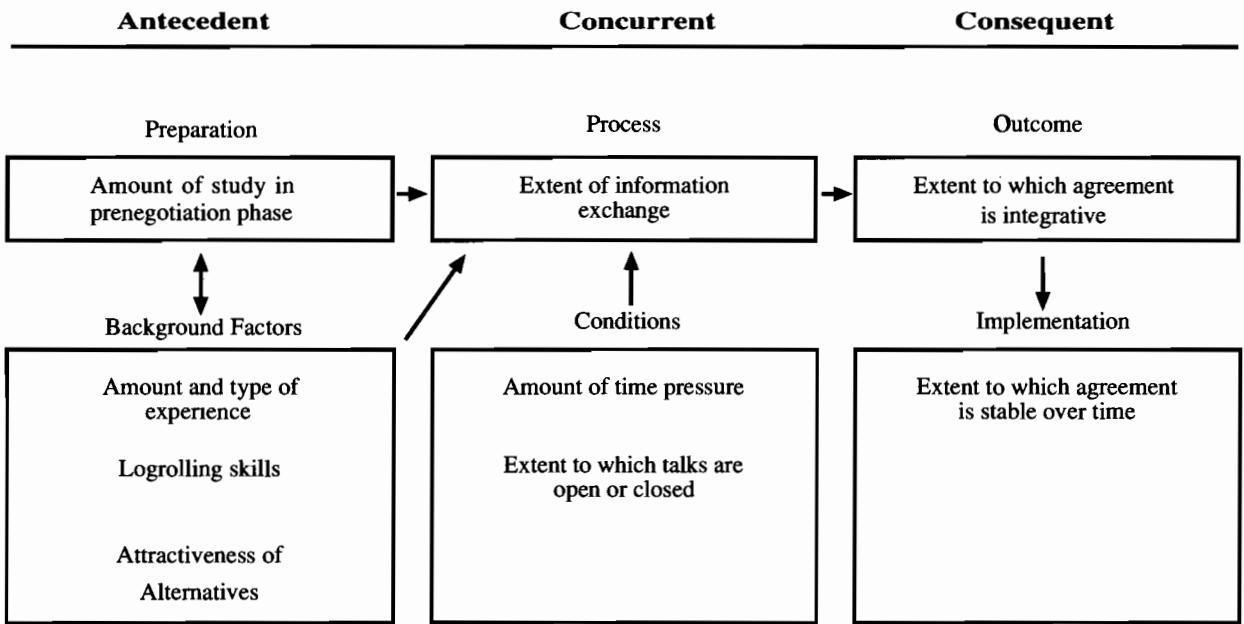
From Research to Application

It may appear, at least at first blush, that the research I just reported has little practical relevance. Quite to the contrary. In this section, I will demonstrate just how relevant these sorts of findings can be, first with regard to training and, then, on computer diagnosis.

Utilizing findings in training programs. Supported by a United States Institute of Peace (USIP) grant to ICAR, and in keeping with the USIP mission to bridge theory and practice, we developed a framework and process for utilizing findings from research in training programs. To date the training has been done on an annual basis with United Nations delegates through the Institute of World Affairs, at a business school in Cochin, India through the Parisian Ecole Nationale Des Ponts et Chaussees, with practitioners in Lima, Peru, through the NGO IPRECON, at Bilkent University in Ankara Turkey, at Erasmus University in Rotterdam, The Netherlands through the International Institute for Mediation and Conflict Resolution, and at ICAR. In addition, we are working with French colleagues to extend the narratives to incorporate themes found in the European literature on negotiation. (See Druckman and Robinson, 1998, for a description of the approach, its implementation, and evaluation.)

After completing a detailed review of the empirical literature on bargaining and negotiation, we grouped the studies -- many of which appear in the meta-analysis -- under 12 thematic categories. Our aim was to capture the key findings or insights from the studies and present them in an essay or **narrative** form. Each narrative is a two page statement followed by four discussion questions and containing footnoted citations: the themes are **emotions** in negotiation, the role of **culture**, on relationships, effects of **experience**, getting **integrative agreements**, impact of **relationships on negotiation**, **information exchange**, the use of **alternatives**, **time pressure**, **third-party** effects, presenting **two faces**, the use of **rewards**, and constraints on **flexibility**. For the integrative agreements narrative, we also present a framework that depicts an "anatomy of integrative agreements" as shown on Figure 4.^{7 8}

Figure 4. Anatomy of Integrative Bargaining



Emphasized in the narratives are counter-intuitive findings such as the following:

- a) Quick agreements may be bad agreements. They often occur before bargainers have an opportunity to be sure they are working with all the relevant information. The result may be a kind of "winner's curse," where a bargainer thinks he or she got a desired outcome only to realize that a better outcome could have occurred.
- b) Extensive information searches during negotiation may reveal incompatibilities of interest that serve to escalate rather than settle the conflict.
- c) Attractive alternatives usually increase bargainers' power, but they also encourage them to focus only on their own interests and to regard their opponents as having even more attractive alternatives. These are the conditions for sub-optimal agreements.
- d) Tough postures may be advantageous when followed by softer behavior; cooperation is valued more in a competitive context.
- e) Anger may be helpful if it is used to emphasize deeply felt interests and is directed at the task rather than the other bargainer.
- f) Friendship or good relations may lead to sub-optimal agreements because bargainers concede too much too soon.
- g) While national culture shapes behavior, it may be a less important influence on the behavior of international negotiators who share a professional sub-culture.

These and other findings have implications also for practice in the form of "discourage quick agreements by avoiding too-rapid concession exchanges." The findings, summarized in the narratives, were applied in role-play exercises including the analysis of actual cases. In one exercise, we asked participants to take the role of **analyst**. In another they played the role of **strategist**. And, in a third, they **designed** training exercises. The analyst and strategist roles were implemented in relation to a particular case such as the 1979 "Korean Joggers" negotiation or Camp David. The cases were taken from either the Pew case study series or the Johns Hopkins Foreign Policy Institute series. Participants were divided into small "consulting" teams, each given a different case. Each team wrote reports for each of the three role assignments. The reports were content analyzed for indicators of learning. Additional information about what was learned came from post-exercise self-report questionnaires.

On evaluation. In one workshop with UN delegates, we conducted an "experiment." Some groups learned the concepts through the narratives; other groups were given only general themes on each topic. The narrative teams showed more complex applications of the concepts in the written reports and in the oral debriefings than did the control teams. They also perceived that the exercises contributed more to their learning and were more satisfied with their products than were the control teams (see Table 5).

In another workshop, this time with graduate students, we attempted to increase the learning benefits by giving participants a deeper experience with the literature. They read a selection of the original articles and report on them. These participants showed an even more sophisticated understanding of the concepts than those did in the earlier workshop: they wrote more complex essays in each role (see Table 5).

In a third workshop, again with UN participants, the three role enactments were separated in time with the analyst and strategist roles occurring together in May in New York City and the designer role in Salisbury CT. in June. As shown in Table 5, their performance was similar to the narrative groups in the first workshop except that they thought they learned more (expressed in self-reports) than their performance suggested. This may reflect an "illusion of comprehension."

Table 5. Training Performance Comparisons

a. Narratives vs. Controls

Written Products:

Narrative groups 1.8*

Control groups 1.3

Oral Presentations:

Narrative groups 2.3

Control groups 1.3

Conclusion: The narrative groups performed better than the control groups.

b. Workshop Comparisons

Workshop I 1.8

Workshop 2 2.4

Workshop 3 1.6

Conclusion: Role-players in workshop 2 did best.

c. Role Comparisons

Analyst role 1.9

Strategist role 1.8

Designer role 1.2

Conclusion: Participants performed better in the analyst and strategist roles than in the designer role.

*Reported as group means

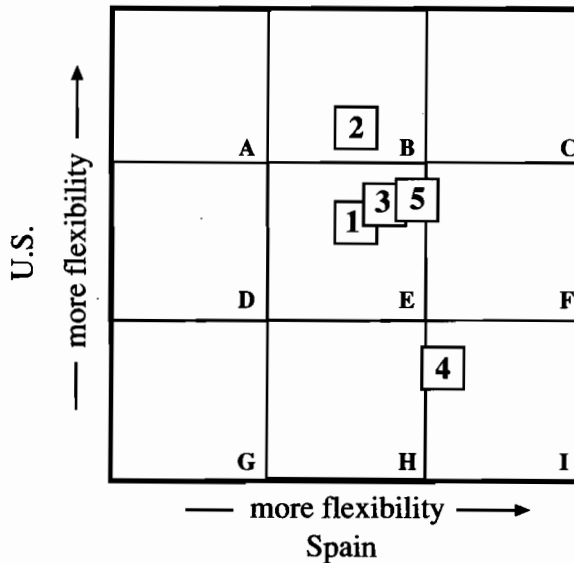
Interestingly, long-term impacts were apparent for the participants in these workshops. Most indicated in three-month follow ups that they a) developed an interest in the literature, b) that they would consult literature in relevant situations (although few of the UN participants actually consulted the literature), and that c) they recalled issues raised in the workshop. Of the three roles, the designer role was seen as most difficult to execute. Overall, the experience proved beneficial, especially when augmented by reviews of the journal literature and frameworks. The narratives contributed to learning the concepts and the participants used the material, at least to some extent, in their work environments. Analyses of the evaluations of more recent workshops remain to be done.

Diagnosing flexibility. Another application based on the research involves computer software. With the support of the United States Institute of Peace, we developed a program that diagnoses the flexibility of the negotiating parties. It presents the diagnosis on a two-dimensional grid divided into nine cells as shown in Figure 5 for the case of base rights negotiations between Spain and the United States. (Other applications are discussed in Druckman, 1995.) Based on answers to questions in each of several areas of negotiation, the program calculates

the extent of flexibility for each party and also projects a possible outcome if the talks were to conclude at that point. The questions represent the variables investigated in the empirical research and the meta-analysis discussed above. It has been used by several of my students to diagnose cases for their term papers in the class on Negotiations and by Lynn Wagner in conjunction with her dissertation research at Johns Hopkins University. It has several features, including:

- A calculation of flexibility for each aspect of the Sawyer-Guertzkow framework discussed above: issues, delegations, situation, process, outcomes; for example, a particular case can be stalled on process but not on issues and, thus, be diagnosed differently.
- It can be used for strategy development by answering the questions in different ways and comparing impacts;
- It can chart progress by answering the questions at each of several junctures during the process;
- It can be used for comparative analysis that facilitates the development of typologies.
- Validity can be assessed by comparing projected and actual outcomes from past cases (see Druckman, 1993a for an assessment).
- An impasse window can provide information about how impasses were resolved in similar cases in order to stimulate ideas for resolving the impasse in the current case.
- Users can develop their own questions and weights in the context of virtually any kind of negotiation, domestic or international.

Figure 5. U.S. Base Rights in Spain



Key

- | | |
|--------------------------|------------------|
| 1 Major Issue | A Capitulation |
| 2 Delegations Activities | B No agreement |
| 3 Situation | C Fair agreement |
| 4 Process | D No agreement |
| 5 Total | E Fair agreement |
| | F No agreement |
| | G Impasse |
| | H No agreement |
| | I Capitulation |

NOTE: The figure is read as follows. Flexibility for the United States increases as one moves from the bottom to the top. Flexibility for Spain increases as one moves from left to right. The diagnoses of flexibility were made separately for the major issue in the talks as well as for the factors of delegations' activities, situation, and process. "Total" refers to a diagnosis made across all of the factors. The diagnostic results are indicated by the placement of the numbered factors in the cells. The second factor delegations' activities, is in cell B, which, according to the key, indicates no agreement. The fourth factor, process, is found in cell I, indicating capitulation by the Spanish delegation.

From Druckman (1995)

In conclusion

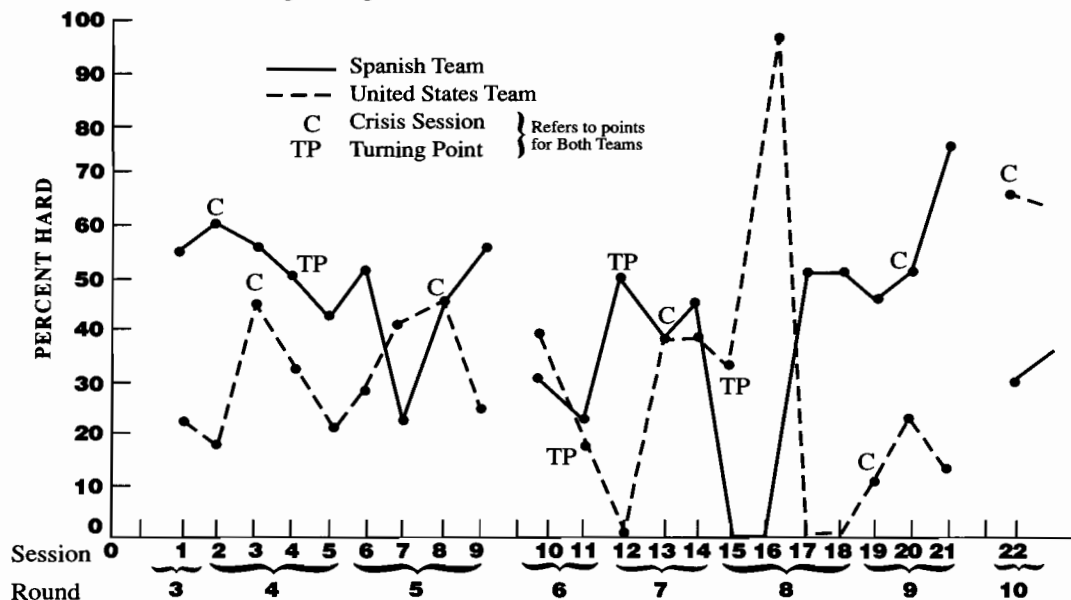
Findings from laboratory research on negotiation are applicable. They are a source of insights, which are sometimes counter-intuitive, that enrich analysis and suggest strategies for dealing with impasses in complex negotiating cases. The research findings are also useful for diagnosing flexibility in the various parts of a negotiating process and for projecting possible outcomes.

Models of Responsiveness

Flash back to the 1970s: Two lines of research came together in the 1970s. One consisted of experiments on bilateral-monopoly bargaining with children done at IJR; the other was a case study analysis of cable traffic and transcripts of an official treaty negotiation between Spain and the US in 1975-76 done at Mathtech. Featured in the experiments with children was an evaluation of the impact of the other's concession rate strategy, which was either relatively soft or tough. Among the many findings reported in two articles published in *Behavioral Science* (Druckman et al., 1972a and Druckman and Bonoma, 1976), one stood out as being particularly interesting. I observed that bargainers were monitoring each other's moves similar to Coddington's (1968) cyclical expectation-evaluation-adjustment models. Bargainers were particularly sensitive to the comparison (or relative size) of each other's moves. Impasses often occurred after one bargainer noticed a gap between the concession rates: The "softer" bargainer (in the earlier phases) adjusted his/her concessions to match those made by the "harder" bargainer, especially when expectations for reciprocal concession making were disappointed.

My experience with the cable traffic at Mathtech led me to wonder, first, why there were so many impasses in what appeared to be a rather straight-forward negotiation and, second, whether there were signals in the process that led to the occurrences of these impasses. (In this negotiation, an impasse was a crisis in the sense of one or another party walking out.) I began informally to chart trends in the rhetoric used by the respective delegations and discovered a particular pattern not unlike that discovered in the experiments with children. I then developed a content analysis coding system for more systematic work. By carefully coding the discussions in the transcripts, I was able to calculate correlations among various indicators in the trends. As shown in Figure 6, the U.S. delegation often adjusted its moves toward Spain's harder posture following a gap between them. This adjustment led to an impasse similar to that found in the experiments (Druckman, 1986).

Figure 6. Trends Across Rounds in Spanish and American Teams' Negotiating Behavior



From Druckman (1986)

*What was **Mathtech**? This was a division of Mathematica, Inc. a company founded by several Princeton University professors in the early 1960s. Oskar Morgenstern, co-author with John von Neumann of the classic 1944 book, "Game Theory and Economic Behavior," was the chairman of the board. Its first contract in 1961-62 was to provide an intellectual foundation for the new Arms Control and Disarmament Agency. They found it in game theory. We were about a dozen social scientists working at Mathtech's "think-tank," called the Analytical Support Center, from 1975-1982. Some of my projects were intended to support the US delegations to various negotiations such as base rights and conventional troop reductions. Other projects included the development of a framework for studying political mobility with application to the case of Brazilian regimes and a three-year project on the meaning and functions of nonverbal communication, which appeared as a book in 1982.*

This empirical evidence, supporting the Coddington cycle, became known as "threshold-adjustment" because the adjustment followed a noticeable **difference**, which could be regarded as a threshold. At this time I became particularly interested in studying the way bargainers process information about the other's moves. Referred to as the **monitoring** function in negotiation, I developed alternative models and conducted experiments that sought relationships among bargaining moves, nonverbal expressions, and (even) neuro-physiological indicators of information processing (Druckman et al., 1983). My most important paper on this subject is the one on the boundary-role dilemma appearing in a 1977 issue of the Journal of Conflict Resolution (JCR). In that paper I developed two information-processing models, one referred to as "**the negotiator as bargainer**" (responding to the other side) and the other as "**the negotiator as representative**" (responding to own side's preferences). Taken together, these models were a predecessor of the popular two-level game concept in international relations (Putnam, 1988).

This phenomenon was also similar to a model defined by Stoll and McAndrew (1986) as "comparative reciprocity." They found some support for this model of reciprocity (compared to a simpler tit-for-tat and a trend reciprocity model) in their analysis of SALT I proposals accumulated, organized, and presented by Jensen in his 1988 book. {Coincidentally, their paper appeared in the same issue of the JCR in which my base-rights negotiation paper, showing a similar phenomenon, appeared.) I decided to evaluate the robustness or generality of this model -- compared to nine other models of responsiveness -- by examining the moves made (concessions or rhetoric) in eight cases of international negotiation, mostly on arms control issues, shown in Table 6.

Table 6. The Negotiation Cases

Case	Period	Parties	Types of Data	No. Rounds**
Base Rights	1975-76	Spain United States	BPA on rhetoric*	21
SALT I & II	1969- 79	Soviet Union. United States	Weighted concessions	15
MBFR***	1974-77	NATO Warsaw Pact	BPA on rhetoric	8
Postwar (WWII) Disarmament	1946-60	Soviet Union United States	Weighted concession	22
Nuclear Test Ban, extended period	1958-63	Soviet Union United States	Weighted concessions	14
Nuclear Test Ban, restricted period	1962-63	Soviet Union United States United Kingdom	BPA on rhetoric.	15
Nuclear Test Ban II, restricted period	1962-63	Soviet Union United States	BPA on rhetoric	15

* Bargaining process analysis coding system

** Refers to the number of rounds or sessions used in the analysis

*** Mutual and Balanced Force Reductions negotiations (three-year period analyzed)

Correlations were computed between moves made by the other and own sides according to each of the models shown in Table 7, directional, trend, and comparative: for example, for the comparative model, the correlation was calculated between the size of the difference in concessions made **between** the parties in the previous round ($t - 1$) and the difference between concessions made **within** a party in the next round ($t \rightarrow t + 1$). They were also computed for a number of variants on those models, such as various lags, weighting more recent moves more strongly than earlier moves, and combinations of the trend and comparative models. The results are shown in Table 8.

Table 7. Predictions for Three Models of Reciprocity

Directional Reciprocity Models		
B 's Action in Previous Round	Cooperative	Inverse
Concession	Concession	Retraction
Neutral	Neutral	Neutral
Retraction	Retraction	Concession

Trend Reciprocity Models		
B 's Change in Action From Round t-2 to t-1	Cooperative	Inverse
Increase in concession	Increase in concession	Decrease in concession
No change	No change	No change
Decrease in concession	Decrease in concession	Increase in concession

Comparative Reciprocity Models		
B 's Actions in Previous Round: Compared to A	Cooperative	Inverse
Higher concession score	Increase in concession	Decrease in concession
Equal concession score	No change	No change
Lower concession score	Decrease in concession	Increase in concession

Adapted from Stoll and McAndrew (1986)

Table 8. Fit of Responsiveness Models

Negotiation	Party	TYPES OF MODELS										
		Directional	Trend					Comparative				
			I	II	III	IV	V	I	II	III	IV	
Base Rights	Spain	-.22	.17	.01	.12	.22	.10	.51 β	.48 β	.4 β	.50 β	
	United States	.29	.35	.33	.55 γ	.44 α	.66 γ	.63 γ	.52 β	.67 γ	.99 γ	
SALTI & II	Soviet Union	-.17	-.15	.12	-.22	-.29	-.02	.47 α	.19	.32	.30	
	United States	.40	.40	-.58 β	.30	.34	.00	.37	.44 α	.39	.42	
MBFR	East	-.10	-.28	.69 β	-.58	-.38	-.44	.69 β	.57	.60	.62 α	
	West	-.07	-.55	-.12	-.56	-.36	-.56	-.33	-.49	-.44 α	-.58	
SALTI & II	Soviet Union	-.08	.23	-.18	.34	-.37 α	-.05	.49 β	.19	.32	.30	
	United States	-.57 γ	.03	-.17	.01	.18	-.16	.47 β	.35 α	.33	.35 α	
Nuclear Test Ban (extended period)	Soviet Union	-.53 β	-.34	-.45 α	-.19	.23	.19	.04	-.08	.14	.30	
	United States	-.30	.25	.13	.43	.41	.34	.50 α	.47 α	.49 α	.55 β	
Nuclear Test Ban I (restricted period)	Soviet Union	.03	.18	-.38	-.03	.12	-.14	.25	.12	.07	.07	
	U.S & U.K.	.22	.31	-.18	.31	-.23	.32	.67 γ	.66 γ	.73 γ	.72 γ	
Nuclear Test Ban II (restricted period)	Soviet Union	-.08	.11	-.46 α	-.03	.08	-.28	.21	.24	.15	.26	
	United States	.43	.49 α	-.29	-.48 α	-.34	.47 α	.70 γ	.73 γ	.71 γ	.73 γ	

NOTE: This table shows the correlations of various models with the data. The ten models used of three major types: *Directional*, *Trend*, and *Comparative*. The five Trend models are I-Trend, II-Lagged Trend (Lag), III-0.3 Lag, 0.7 Trend (additive), IV-0.3 Lag, 0.7 Trend (multiplicative), and V.Equal weights for Lag and Trend. The four comparative models are I-Comparative only, II-Comparative & Trend, III-Comparative & Lagged Trend (unweighted) and IV-Comparative & Lagged Trend (weighted). Significant positive correlations are indicated by bold type and dark shading, where as significant inverse correlations are indicated by italics and light shading. The degree of significance is indicated by three symbols. α ($p < .10$), β ($p < .05$) or γ ($p < .01$)

From Druckman and Harris (1990)

The largest number of significant correlations, across the cases, occur for the comparative reciprocity model (see comparative model I in Table 8). In most cases and for most parties, bargainers adjusted their moves following a comparison of the moves made by self and other in the preceding round. They reacted to the immediately previous round of paired-moves rather than to a sequence of moves made over time. In fact, the comparative model is even better than various combinations of trend and comparative reciprocity (compare the significant correlations among the comparative models I, II, III, and IV in Table 8). Further, the same pattern appeared in an analysis of the Turkish-language transcripts of the Lausanne negotiations of 1921-22 following WWI (Beriker and Druckman, 1991). Similar results were obtained by Patchen and Bogumil (1995) in their analysis of cooperative and competitive interactions over several years of Soviet-U.S. interactions. It seems as though there is a strong desire for fairness or for reduced complexity by the bargainers. Fairness relates to a show of good faith in the process. Reduced complexity refers to predictability in the process, in the sense of maintaining synchrony or an equilibrium. This is an issue for further research.

In conclusion

Bargainers respond not by reciprocating the previous move (as tit-for-tat) or from monitoring the trend of moves made by bargaining opponents through time but to the **difference** between moves (construed as rhetoric, concessions, or proposals) made by self and other in the immediately previous round. This form of response, referred to as comparative reciprocity or "threshold-adjustment," is quite robust, manifesting itself in a variety of

negotiations and in international interactions over a period of several years.

These findings support Coddington's (1968) model of adjustments to comparisons in bargaining moves as well as Lewin's (1951) "principle of contemporaneity" in the sense that bargainers respond to the immediately previous interaction. It is also similar to the kind of security dilemma described by Burton et al. as follows:

Most parties to a conflict gravitate to a position of strength as their ultimate guarantee of security. They may, however, be prepared to negotiate from this position of strength. But one side's position of strength is another side's position of inferiority in a conflict situation. The latter, therefore, seeks to remedy its position of inferiority by increasing its strength and thereby frightens the first party which tries to increase its strength and security, and so the spiral is given another twist (1974: 82).

An Interplay between Values and Interests

Flash back again: A series of experiments, done in the 1970s at IJR, was stimulated by writings about the interplay between values and interests in the literature on the sociology of conflict and the realization that research on negotiation largely ignored values. Coser's (1956) elaboration of Simmel's propositions (and other writings on the sociology of conflict) provided the impetus for this research. One proposition, in particular, stimulated the initial experiments:

Conflicts in which participants feel that they are merely the representatives of collectivities and groups, fighting not for self but for the ideals of the group they represent are likely to be more radical and merciless than those that are fought for personal reasons. Elimination of the personal element tends to make the conflict sharper, in the absence of modifying elements which personal factors would normally introduce (Coser, 1956: 118).

The methodology consisted of embedding experiments in political decision-making simulation scenarios, including simulated city councils (Zechmeister and Druckman, 1973), simulated population and prison services policy-making committees (Druckman et al., 1977; Love et al., 1983), simulated ecumenical councils (Druckman et al., 1974), and simulated intra-national political conflict (Druckman et al., 1988). The results of these experiments repeatedly confirmed the proposition that conflicts intensified when interests or positions are linked to values or ideologies. This is another robust finding.

A typical experiment was the one I conducted at ICAR with Broome and Korper. An intra-national conflict on the island of Cygnus was the scenario in which three experimental conditions were compared: an embedded (interests derive from values), de-linked (interests separated from values) and facilitated (interests derive from values with a simulated workshop experience) condition. We found the de-linked and facilitation conditions were better than the embedded condition on outcomes but the facilitation condition produced the most cooperation in the negotiation process. In a follow-up experiment, conducted also at ICAR with Broome, we found that the positive effects of facilitation on the process (vs. embedded and de-linked) were due **both** to the increased familiarity and liking that resulted from the interactions. These findings suggested alternative "models" of the sequence of situational, perceptual, process, and outcome effects that resulted from the different types of experimental conditions, namely, the different sequences precipitated by the facilitation and embedded conditions, on the one hand, and by the de-linked condition on the other. (See Druckman et al., 1988, and Druckman and Broome, 1991, for details.)

These experiments were designed to provide evidence for the role of values in negotiations over conflicting interests. Another perspective on the interplay between values and interests is to consider them as alternative sources of conflict in opposition. Many political decisions reflect a balancing of a decision-maker's interests and values, the one being more important than the other depending on the circumstance. We explored some circumstances in the context of simulated ecumenical councils in Houston, Texas.⁹ The "council" was composed of "representatives" from each of several religious denominations, ranging from fundamental (Southern Baptists) to liberal (Unitarians) values. They were responsible for allocating resources to various programs in the community. Funding decisions resulted from winning coalitions (alliances of denominations) that often required "compromises" of theological values. These data were used to evaluate a model of coalition formation based on the relative weight given to a decision-maker's values (or ideologies) and (material) interests. We found that the model that most accurately captured the decisions was a mixed model in which interests were weighted slightly more strongly than values. While attempting to strike a balance between their values and interests, decision

makers funded projects that reflected their interests (for example, increased revenue) more than their values (for example, the act of praying with members of other denominations). These results suggested the unexpected outcome that interests trump values on issues that, in essence, define the religious groups represented in the simulation. This research is discussed in some detail in Druckman et al. (1974) and in Krause et al. (1976).

Flash forward to the 1990s:

The earlier experimental research on values and interests was limited to exploring some variants on Coser's proposition stated above. A number of other propositions from the literature on the sociology of conflict depict the way that inter-group dynamics polarize and de-polarize conflicts, and are presented in Druckman and Zechmeister (1973). These processes are more difficult to observe in laboratory settings. An opportunity to explore this set of propositions was presented in the form of a case study of the negotiations that occurred between the Philippines' Aquino regime and the National Democratic Front (NDF) in 1986. This case was analyzed as part of a larger project on negotiating internal conflicts sponsored by the Johns Hopkins School of Advanced International Studies and initiated by a 1990 conference. (The complete set of cases is presented in Zartman, 1995.) Following is an illustration of the way the propositions are super-imposed on the case for analysis. (See Druckman and Green, 1995, for more details.)

Proposition 1: When contending positions are derived explicitly from opposed ideologies, the conflict will be more intense than when the link is not explicit.

Case snapshot: As in the experiments, the contending parties (the NDF and the government) were divided and polarized by fundamental differences on the meaning of social change which were linked to their bargaining positions.

Proposition 2: Differences in orientation among units within each organization or group will result in a less intense conflict between the groups than when units within each group are homogeneous in orientation.

Case snapshot: The NDF's willingness to negotiate was due in large part to the emergence of a moderate wing within the party. The government's willingness to negotiate was due in no small part to the soft-liners led by President Aquino in opposition to the hard-liners led by Juan Ponce Enrile. Aquino prevailed and there was reason to think that the parties could reach an agreement. (Note the 1967 Evan and McDougall experiment on "bilateral dissensus," showing that moderates on both sides can pull their extremist teammates toward the center.)

Proposition 3: Vague principles that call attention to shared goals will provide a basis for further negotiation; they will also mask the substantive differences that must be resolved for a negotiated agreement.

Case snapshot: Senator Diokno's proposal of broad principles, to which both parties could agree, encouraged face-to-face talks in a first substantive round. It did not sustain a second round where fundamental differences surfaced again on the details, leading to an impasse.

Proposition 4: Through time and repeated encounters, factions (or cadres) within the contending parties will converge on their ideological positions, producing further polarization between the parties which serves, in turn, to increase the intensity of the conflict.

Case snapshot: The alliance of moderates on both sides was eroding as the moderate wing within the government weakened in light of the unpopularity of its power-sharing proposal. With a resumption of armed struggle, the NDF leadership demanded a return to ideological unity and discipline within the party. Sanctions were imposed for deviation, moving the moderates in the direction of the more extreme leadership. The result was further polarization between the NDF and the government, making negotiation unlikely, actually impossible.

We observed a cyclical pattern of intensified and reduced conflict, culminating in an impasse due to the sort of within-group convergence described by the fourth proposition. Insofar as the parties' interests were overlapping (no shared interests), rather than cross-cutting (shared interests on some issues), the impasse was sustained, leading to further violence which was reduced eventually through attrition caused by military confrontations. Cross-cutting interests is a structural "mechanism" that can serve to mediate conflicts as in American legislative politics (Druckman and Zechmeister, 1973). Together, the set of propositions captured the dynamic interplay between interests and values, in this case of disappointed expectations (on both sides) for a negotiated settlement.

This study illustrates how a theoretical perspective is superimposed on the unfolding events of a particular case. It is an analytical strategy in the qualitative research tradition that has the advantages of providing an application for theoretical concepts and for viewing the case through the lens of a conceptual framework. It is not, however, an empirical evaluation of the theory (more cases are needed); nor is it a definitive explanation of the case (no control for alternative explanations). Another example of this approach is our turning-points analysis of the Intermediate Nuclear Force (INF) negotiations in the late 1980s (Druckman et al., 1991). Examples of quantitative analyses based on this approach are my study, based on negotiating stages, of the US-Spain base rights talks (Druckman, 1986) and our quasi-experimental evaluation of mediation (vs. a hurting stalemate) in the conflict over Nagorno-Karabakh (Mooradian and Druckman, 1999). More inductive approaches to analysis in the qualitative tradition are illustrated by two lessons-learned studies conducted on negotiation cases for the US Foreign Service Institute. One compared four very different cases: the Panama Canal, the Falklands Islands, Zimbabwe independence, and Cyprus (Druckman, 1986a). The other compared three similar cases of base-rights talks between the U.S. and Spain, Greece, and the Philippines (Druckman, 1990). Taken together the two analyses produced a number of similar lessons as well as lessons unique to their particular political contexts.¹⁰ I turn next, in the two sections to follow, to comparative cases studies involving large numbers of cases.

In conclusion

Conflict intensifies when interests are linked to (or shown to derive from) contending values or ideologies. This is a robust finding obtained in various experimental simulations and confirming Coser's proposition. Through time and repeated interactions, however, ideological differences between groups become smaller (when moderates on both sides gain influence) or larger (when moderate move closer to their more extreme factions in each group). These cycles of de-polarization and polarization of conflict are influenced by interventions (facilitation, formulae) and by structures (defining the competitive unit in an organization or political system, cross-cutting interests). Added insights into the dynamics of conflict are provided from attempts to superimpose theoretical or conceptual frameworks, such as the interplay between values and interests, on the details of negotiation cases.

Dimensions of International Negotiation

Flash back: One of the reasons why I was a late-comer to case-based research was due, at least in part, to my experience in graduate school with ethnographic reports. I had an unusual opportunity, as a graduate student in a behaviorally-oriented psychology department, to read ethnographies. This opportunity was provided in conjunction with my work in the early 1960s as a research assistant on the cooperative cross-cultural study of ethnocentrism (LeVine and Campbell, 1972). I reviewed two types of ethnographic reports, monographs and dissertations deposited at Northwestern's African Studies archive and the reports catalogued as part of the Human Relations Area Files (HRAF), which were deposited at the University of Chicago library. After having read a few monographs, I approached the next one as a chore: each was rich in excruciatingly detailed descriptive information about a practice or ritual that took place in a particular culture lodged within a multi-cultural African nation. After perusing HRAF reports, I was surprised to realize just how unsystematic they were: each report bore little resemblance in format or substance to the next report in the same general category. For both types of reporting, I was left with the impression of idiosyncratic portraits or ruminations of cultural activities. Without theoretical frameworks to connect them to the larger issues of social science and without methodologies to provide empirical evidence for these issues, I concluded that they were of little value. This conclusion led me to turn to the kind of experimental simulation approach discussed above.

Flash forward to the 1980s:

I was re-introduced to the qualitative case-study research tradition as a member of an analytical working group at the US Foreign Service Institute (FSI). Among the other members of this group were John McDonald, John Burton, Bill Zartman, Lloyd Jensen, and Tom Colossi. As noted just above, we analyzed a set of disparate cases of international diplomacy, including the Panama Canal talks, the talks over independence for Zimbabwe, negotiations to end the war in the Falklands/Malvinas Islands, and the conflict in Cyprus between the Turkish and Greek communities. I was skeptical about whether these analyses would contribute to theoretical knowledge,

even if they were useful to the practitioners. Happily (for my future research, if not for the field), my skepticism dissipated, largely as a result of my experience in performing a lessons-learned analysis of the four cases. To my surprise (given the earlier experience), I discovered that each case was a mine – perhaps copper rather than gold – of valuable information from which broad lessons could be extracted. Unlike the ethnographies that I read in graduate school, these cases provided a considerable amount of theoretically relevant information – and more then could be discovered in an experiment. The value of the lessons was increased further by the comparative exercise. Similarities and dissimilarities among the cases served to increase the variety of lessons suggested (Druckman, 1986a). A second exercise on a more homogeneous set of cases provided a clearer understanding of the importance of context in diplomacy (Druckman, 1990). (see note 10 for the difference between these approaches.)

Together, the two FSI projects contributed to the development of a methodological approach in which frameworks are superimposed on or emerge from case analyses (e.g., Druckman and Green, 1995; see also the discussion in the previous section). While leading to more case studies, such as the analysis of turning points to be discussed in the next section, the small set of cases studied left open the question of generalizability. This question motivated me to develop a methodological approach suitable for analyses of large numbers of cases.

Flash forward (again) to the 1990s in Vienna (Austria and Virginia)

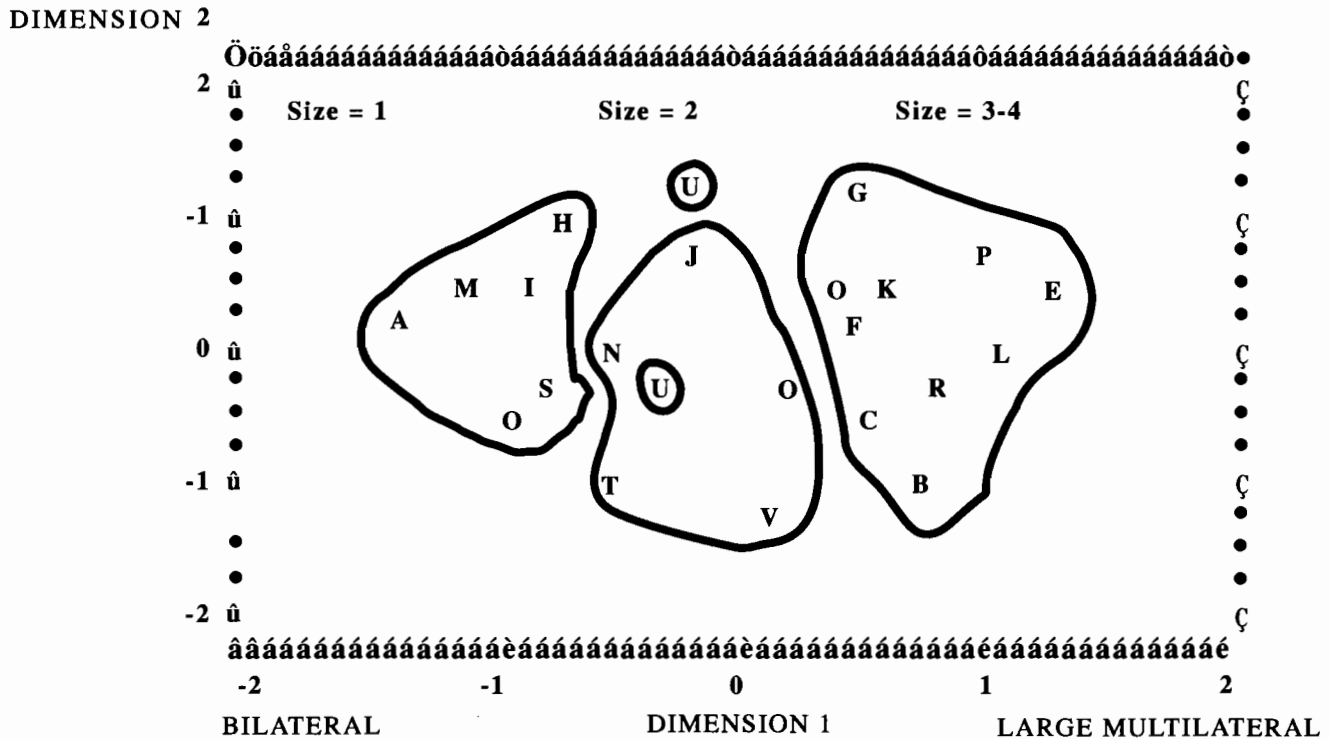
At IIASA, the PIN group was conducting studies of international negotiation in which cases were the centerpiece. Although attempts were made by the editorial teams to synthesize the case studies on each topic, the efforts were not convincing or rigorous. They were not guided by a comparative analysis design. The well-known tension that exists between emic (understanding a case within its own setting) and etic (seeking generalities across cases) approaches was evident. With some concern about this problem, I sought to develop the sort of comparative methodology that would produce insights from large numbers of cases. I was particularly interested in the (etic) question of discerning similarities and dissimilarities among heterogeneous sets of cases. Statistical clustering techniques seemed relevant. The use of these techniques is based on seeking the same information – or asking the same questions – from all the cases. (This is similar to imposing the same conceptual framework on the different cases.) I began with an exploratory study that consisted of "coding" (asking the same questions) twelve cases of international negotiation from secondary source materials, such as books written about the SALT (Talbot, 1984) talks or about the Montreal Protocol (Benedick, 1991).

The twelve cases were divided into those concerned with arms control (ABM, SALT, test-ban), trade (GATT, European Single Act), and environmental (Montreal Protocol, Acid Rain, Trans-boundary Air Pollution, Vienna Convention). For each case we asked about such aspects of negotiation as the number of parties, relationship among the parties, third parties, turnover of delegates, external events, and concessions made. Each case could then be described in terms of a profile of "characteristics." We were interested in learning whether there were similarities or dissimilarities among the profiles. The statistical technique best suited for addressing this question is **multidimensional scaling (MDS)**. This procedure searches for dimensions that organize the cases; it also identifies clusters of similar cases. For these cases, we discovered two dimensions, one distinguished between cases that were "european-centered" (e.g., arms control) from those that were not (e.g., the Uruguay round of GATT). It also distinguished between the smaller, bilateral talks (e.g., SALT II) and the larger, multilateral talks (e.g., Montreal Protocol). More importantly, the analysis served as a basis for the larger, primary-source data set to follow.

The next analysis was based on 23 cases in which Austrian delegations participated. Sponsored by the Austrian Federal Ministry for Science and Research (under a contract to IIASA), the analysis was intended to provide insights into the Austrian negotiation experience, with implications for other small states. We expanded the number of questions (variables) asked from 12 (in the earlier analysis) to 37 and collected information from face-to-face interviews with delegates to the negotiations. This was quite an elaborate set of analyses, which included both model development and a search for dimensions. The model, constructed from correlations among all the variables across the 23 cases, depicted relationships among the various aspects of negotiation (processes and influences) leading to outcomes. The dimensional analysis identified one dimension that ran through the cases, conference size. As shown in Figure 7, the cases form three amoeba-like clusters, bilateral, small multilateral and large multilateral negotiations. Bilateral negotiations (compared to the larger conferences) were more likely to be characterized by treaties and proceeded in a more stage-like fashion: This difference may have

been due to three intervening factors shown to relate to both size and outcome: delegates in the smaller conferences studied the issues, had more attractive alternatives, and engaged in private discussions. For these reasons, Austrian delegations (and, by implication, other small countries) fare better in the smaller bilateral talks.

Figure 7. The Size Dimension



From Druckman (1997)

A third analysis consisted of 15 cases from the Johns Hopkins Foreign Policy Institute (FPI) series. These cases were grouped roughly in terms of negotiating objectives following Iklé's (1964) typology. Questions asked about each case were similar to those asked in the Austrian study. The difference, however, was the results. Unlike the party structure dimension discovered in the Austrian study, this analysis revealed two issue dimensions. One dimension was issue complexity; the other was number of issues. The four quadrants of the two-dimensions consisted of cases with many complex issues (SALT I), cases with many not complex issues (Panama Canal), few not complex (Sinai II), and few complex issues (INF). Another distinction found among the cases was between those that could be regarded as primarily distributive (who gets what) and those that deal primarily with non-distributive or integrative issues. It was interesting to speculate that the issue structure finding from this analysis may reflect the case-study authors' emphasis on substance or the conceptual aspects of negotiations, in contrast to the Austrian delegates' concern with the benefits and costs of participating in bilateral (where small countries have more influence) vs. multilateral (where small countries gain visibility on an international or global stage) large talks. This analysis of the FPI cases also prepared us for the more ambitious analysis to follow. (See Druckman, 1997 for details on these analyses and results.).

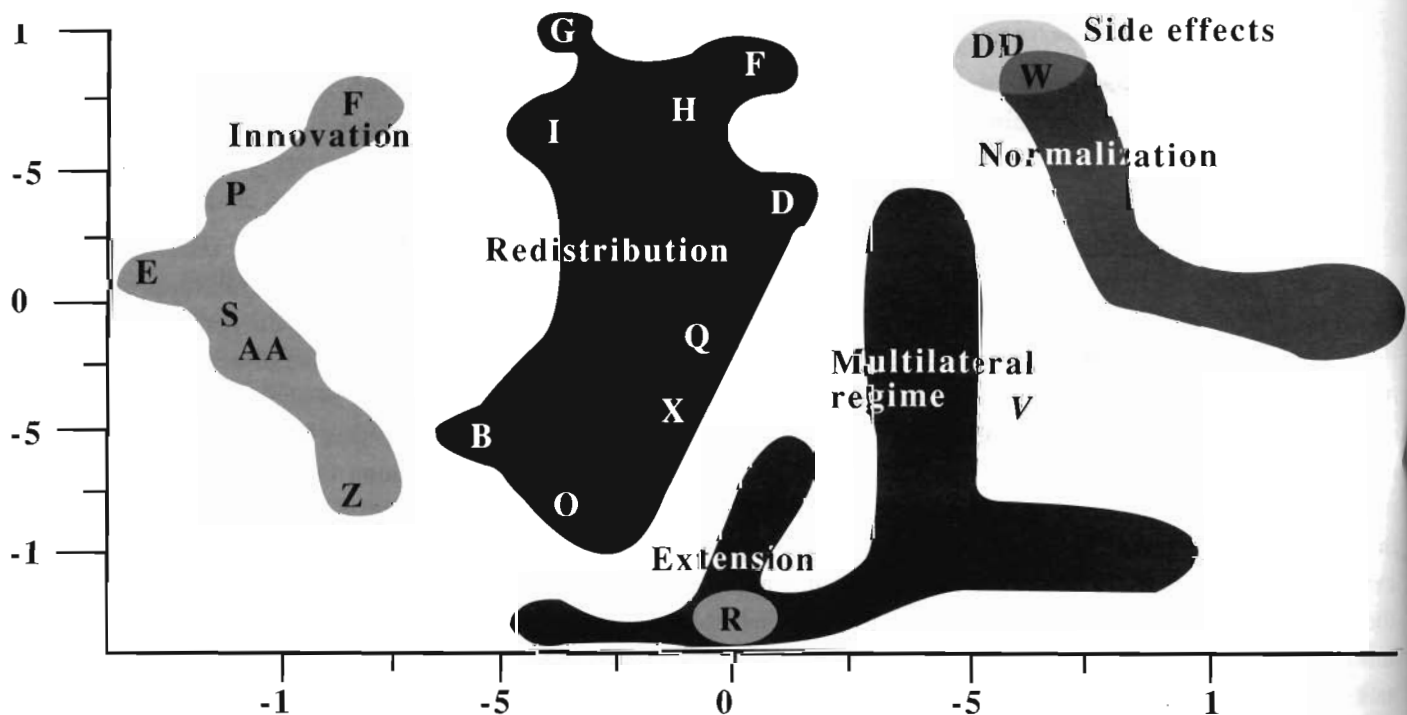
The fourth scaling project was one of the most satisfying research projects in my career. This was because it was done with two ICAR students (Susan Allen Nan and Demostenis Yagcioglu) and a GMU doctoral student in psychology (Jennifer Martin) – all were students in my class on negotiation. This project was the first attempt

to evaluate empirically the well-known typology of negotiation proposed by Iklé in his 1964 book, "How Nations Negotiate." This analysis was done with 30 cases from the Pew Case Studies in International Affairs. The cases were drawn randomly within clusters from a universe of 176 cases studies listed in the 1993 Pew catalogue. The cluster sampling method was designed to increase the representativeness of the sample, at least in terms of region and type of issue (as trade, security, or environmental). The first step was to categorize the cases by objective: as re-distribution, innovation, extension, normalization, or side effects. The second step was to devise the coding categories, many of which were drawn from the earlier analyses. Sixteen categories covered the parties, delegations, issues, processes, conditions, and outcomes of the negotiation. The categories were then used to code each of the cases. Next, we performed a variety of statistical analyses, including MDS, and interpreted the results in terms of implications for the typology. Here is what we discovered.

As shown in Figure 8, the 30 cases formed Rorschach (inkblot)-like clusters that coincided quite precisely with Iklé's types of objectives. In fact, these MDS clusters -- which we call "islands of theory" -- are remarkable in the clarity of their fit to the typology. Further, when a computer program was asked to categorize the cases based only on the coded information, the cases are put in the correct category (as re-distribution, innovation, etc.) 78% of the time. The a priori categories (classification decisions made prior to coding) corresponded to the a posteriori categories (results of the statistical analysis), except for four cases. Initially considered as "outliers," these cases had in common the objective of developing multilateral regimes. This is a type of negotiation that became popular in the 1980s, twenty years after Iklé wrote his book. Thus, the old typology is quite useful for distinguishing among the cases. Each type has a relatively distinct profile: for example, multilateral regime talks involve a large number of parties, deal with many issues, take a long time to reach an agreement, consist of mixed (problem solving and bargaining) processes leading to compromise outcomes, and are exposed to media coverage; interestingly, innovation talks have the opposite profile. (See Druckman et al., 1999, for the details.). Fred Iklé -- who is now at the Center for Strategic and International Studies -- was delighted with these results (personal communication), and sent us a rare copy of the out-of-print second edition of "How Nations Negotiate."

The empirical evidence provided by this study shows that this particular typology is a useful way for

Figure 8. Scaling of the Cases by Type of Negotiation



From Druckman et al. (1999) Scaling of the cases by type of negotiation: Extension causes are C, R, and U; Multilateral regime cases are A, B, F, and K; Normalization cases are J, L, M, N, and CC.

distinguishing among cases of international negotiation. These results may also be useful for diagnosis. Knowing the type of negotiation, the analyst or practitioner can project an expected pattern of processes and influences.

However, it is also likely that many cases are not of one type; long negotiations may have multiple or changing objectives. Of interest is the research question whether mixed types of cases have distinct profiles. More generally, how do we reconcile the difference between relatively static types and the dynamic processes that are captured by the trajectories discovered in our other projects?

As is the case with typologies in general, the profiles suggest relatively static types of negotiation that emphasize characteristics rather than dynamics. In contrast, analyses of processes, such as the work on situational levers, values and interests, and turning points, focus on change rather than characteristics. A challenge then is to connect the typology, based on objectives, to the dynamics captured by the path analyses discussed earlier (situations, issues, processes). For example, are the situational levers discovered in the simulation research discussed above relevant only to the environmental topics discussed? Is secrecy or a lack of media coverage, found to be important in the simulation, relevant primarily in the context of the innovation objective emphasized by the scenario? And, do the different types of negotiation, defined in terms of objectives, have different patterns of turning points as defined in the next section by our three-part framework?

In conclusion

Negotiations can be distinguished in terms of their objectives – such as the ones proposed by Iklé. These types can be construed as "islands of theory," suggesting alternative models or middle-range theories of negotiation. They were shown to distinguish clearly among actual cases in terms of their profiles. By profiles, we refer to those processes (bargaining or problem solving) and influences (media, events) that typically occur in each type of case (for example, a re-distribution or innovation case). How to connect the types (profiles of "characteristics") with negotiating dynamics, as captured in our other research projects, remains a challenge.

Turning Points

The idea of turning points (TPs) in negotiation came from two sources. One was McClelland's (1972) analysis of the Taiwan Straits confrontations in which he identified turning points in the time series of events extending from 1950 to 1964. The other came from my close observation of the way that the base rights talks between Spain and the U.S. progressed during the period from 1975-76 (Druckman, 1986). Provoked by crises, events would occur in each of these cases as a kind of "jump start," either getting the talks back on track or catapulting them to a new stage. Similar events occurred during the course of the INF talks which I also analyzed (Druckman et al., 1991), the North American Free Trade negotiations analyzed by Tomlin (1989), and in the eleven cases of multilateral environmental negotiations analyzed by Chesek (1997). These cases provided a basis for a larger comparative study.

While agreeing on a general conceptual definition of TPs, the earlier studies present considerable variety on the kinds of events chosen to indicate them. None of them offered a typology that distinguishes among the various events, for example, the difference among procedural, substantive, and external TPs. None has clarified whether these types of events are precipitants of departures in the process -- such as a new way of thinking about the issues -- or are the departures themselves --such as moving from a stage of debating to bargaining exchanges. In our comparative study we sought more precision in definition and analysis. We distinguished among three elements of TPs: **precipitants, process departures, and consequences**. By making these distinctions, we move the conception of TPs from the identifiable events definition used in the earlier studies – as moments in time, like the idea of ripeness – to an analysis in three parts. Rather than to identify a TP, we perform a TP analysis.

The analysis is done in relation to a chronology of a negotiation. It is characterized as a kind of **process tracing** proceeding from precipitating events to process departures to immediate and then later consequences leading to an outcome.¹¹ We then extend this within-case analysis to comparisons between cases: paths from different cases are compared. Beginning as a project in my ICAR class on negotiation, we performed this three-part TP analysis on each of 34 cases, most of which were drawn from the Pew case studies series.¹² The cases chosen for analysis represented regions and issue-areas in proportion to the universe of cases in the series: 13 security (defined as issues concerning defense, strategic policy making, arms control, and war termination), 11 political (defined as issues concerning international relationships, international law and organizations, conflict management and resolution, global resources, energy and the environment) , and 10 trade or economic (defined

as issues concerning economic development, money and finance, trade and investment, and science and technology development).

Each case was "coded" into four typologies: type of negotiation in terms of issue area as security, political, or trade; precipitants as procedural (inside), substantive (inside), or external (outside); process departures as more or less abrupt, and consequences as de-escalatory (positive) or escalatory (negative) immediately following the departure and later in the chronology. These "either-or" coding distinctions facilitate cross-tabulations but may obfuscate the extent to which the events vary in degree, as gradations of abruptness or escalation. (For all the coding decisions, see Druckman 2001a).

This project produced a number of interesting findings. The typical paths for the three types of negotiation indicate that the key difference is between security cases on the one hand and the political and trade cases on the other. In practically all the security cases external precipitants led to abrupt departures in the process which, more often than not, had short and longer-term de-escalatory consequences. A typical path takes this form:

Security negotiation - → external precipitant - → abrupt departure in the process - → de-escalation at time t - → de-escalation at time t + 1

Internal precipitants were predominant in both the political and trade talks leading mostly to abrupt departures whose consequences were primarily de-escalatory. A typical path takes the following form:

Political or trade negotiation - → inside precipitant - → abrupt departure - → de-escalation at time t - → de-escalation at time t + 1

The large difference among the types of negotiation in terms of types of precipitants is shown in Table 9. The relationship between these variables is very strong as indicated by a chi-square of 15.36 (for 2 df, $p < .001$).

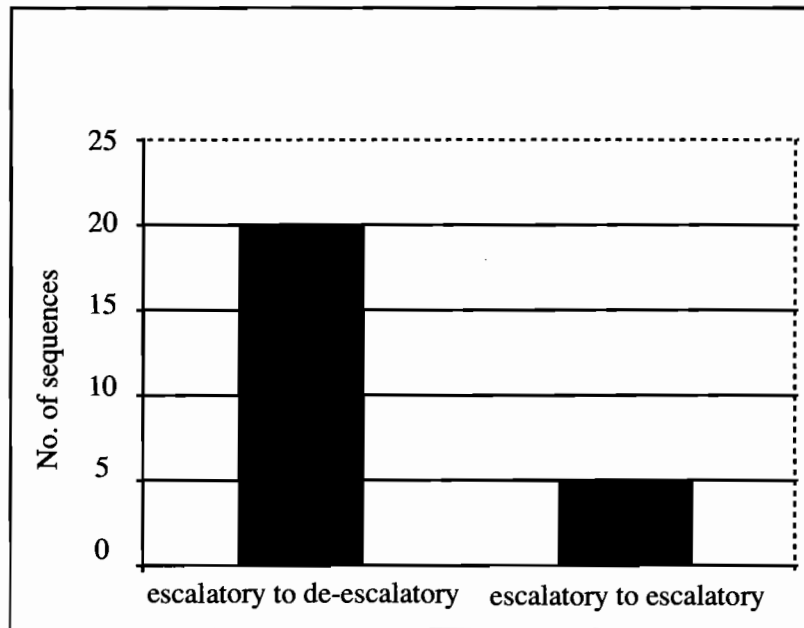
Table 9. Type of Negotiation by Precipitant

Precipitant \ Type	Trade	Political	Security
Substantive	.39	.44	.05
Procedural	.30	.37	.17
External	.31	.19	.78

De-escalation followed previous escalation. As shown in Figure 9, four out of five escalations were followed by de-escalation. Earlier escalations were reversed due to **external** interventions in the security cases they were reversed by actions taken **inside** the talks, as either procedural or substantive decisions, for the political and trade negotiations. This finding provides strong support for the crisis-TP finding obtained in my earlier study of base rights negotiations (Druckman, 1986).

De-escalations occurred in 75% of these cases, suggesting that the turning-point concept refers to proces

Figure 9. Consequence of a Previous Escalation ($t \rightarrow t + 1$) across Cases



From Druckman (2001a)

departures that usually move the talks toward agreement. In most instances, TPs serve a positive function by indicating progress. In only a few instances, TPs serve a negative function by moving the process away from agreements.

We have just begun our analysis of turning points. Among the several empirical issues that remain to be explored are the following:

- . Other variables related to this kind of case material but not coded to date may influence the course taken by the process: for example, length of negotiation, involvement of third parties, procedural flexibility, involvement of heads of state or cabinet ministers.
- . Are ethnic conflicts represented by these cases? How might they differ from the turning points shown for the political or security cases?
- . Are there differences in patterns between the more and less institutionalized forms of negotiations (including unofficial forms of diplomacy)? Are there fewer escalatory consequences in the institutionalized (e.g., UN) talks?
- . Is there a bias toward positive and dramatic events in coding precipitants and process departures?

This study contributes a framework for analyzing TPs within and between cases. It is a way of thinking about the process and, as such, makes comparison possible. This is one kind of trajectory, based on process, with implications for escalation and de-escalation. Earlier we showed two other kinds of trajectories, one based on situations (in the work on situational levers), the other on types of issues (as values or interests). A challenge is to connect the three paths, to link situations, which could be precipitants, to differences on issues to departures in the process that moves the negotiation in escalatory or de-escalatory directions. This would be a more complex tracing of the negotiation process. It would involve identifying those situations or events occurring at early, middle, and late stages – from a larger and more differentiated set of situations – that arouse particular kinds of issues leading to departures that move the talks toward or away from agreements.

In this analysis, turning points were compared for different types of negotiation construed as issue-areas, security, trade, or political issues. Negotiations have been distinguished also in terms of other typologies, such as objectives, as discussed above.

In conclusion

Negotiation outcomes are the culmination of a process that passes through turning points. A turning point analysis construes the process in three parts, as events that precipitate departures that move the process toward or away from agreements. Departures are precipitated by external events or interventions in negotiations over security

issues; they are precipitated by internal procedural or substantive decisions in political and trade talks.

A turning-points analysis is one path toward outcomes; aspects of the situation are another. The connection between these paths may be to regard turning points as passages from one stage to another precipitated by those aspects of the situation found to be the primary driving influences at each stage of a negotiation.

Conclusions

My research has come a full cycle. I started with only a few variables, emphasizing group representation in particular. Then, I added complexity by extending the range of situational variables considered, by examining the process in more detailed ways, and by conceiving issues as both values and interests. Finally, I reduced the complexity of situations, processes, and issues to a few dimensions such as conference size and negotiating objectives. From a few variables to a few dimensions through a winding, spiral path, a journey that has given us some robust insights about the negotiation process.

The insights have derived from empirical research inspired by ideas from a theoretically oriented literature on conflict resolution. These are not new theories, nor are they (for the most part) new practical breakthroughs. Rather, each project is an example of the sort of evidence (and methodological approach) that provides a basis for the further development of theory and practice. The approach taken also provides guidelines for further progress in research. Four themes in particular are highlighted by my work.

The value of frameworks. Our use of frameworks illustrates both their synthetic and analytical value. They provide a way to get a researcher's "mind around a topic." A good example is the framework originally developed by Sawyer and Guetzkow (1965). That framework and its variants have been used to organize the research literature on negotiation, to identify knowledge gaps in that literature, and to organize the parts of complex cases. It has also been used to guide the design and analysis of new data-collection studies, including scenario design for analysis of situational levers, questionnaire design for the comparative analysis of cases, and to provide categories and indicators for diagnosing negotiating flexibility. Another framework, proposed by Iklé (1964) was shown to be quite useful for distinguishing among different types of international cases in terms of their processes and influences. I have found frameworks to be useful also in other areas of research. The Sawyer-Guetzkow framework provided a structure for understanding the relationship between nationalism and war, as well as to organize a review of that literature (Druckman, 2001). A framework that organized the many aspects of groups contending for power within a polity guided a complex diagnostic analysis of political stability in the Philippines with applications to other countries (Druckman and Green, 1986). And, a framework that depicted the process of inferring intentions from nonverbal behavior guided an elaborate experimental diagnosis of the nonverbal cues to deception (Druckman et al., 1982).

The importance of the situation. The evidence presented across the projects makes a strong case for the immediate situation as the primary influence on the behavior observed and decisions made by simulation participants and "real-world" actors alike. The negotiating group representatives in the laboratory tasks were strongly influenced by the way the situation was defined in instructions, by the way they prepared for the negotiation, by time pressure, and by their opponent's strategy. The difference between agreements and impasse among role players in the simulated conference on environmental issues was due to the particular configuration of situational factors that existed at different stages of the conference. The professional negotiators in the Pew cases responded to events, which were either internal or external to the process that precipitated turning points leading toward or away from agreements. In all these venues, negotiators reacted to the situation as defined through the eyes of the analyst or as perceived by the actors themselves. They behaved in keeping with Lewin's "principle of contemporaneity," which is part of a larger theory based on the importance of the psychological field as it exists at the moment. The research also corroborates the well-known attribution bias or misperception, which consists of explaining others' behavior in terms of dispositions rather than the situation in which they are behaving. (See Morris et al., 1999, for recent negotiation research on this issue.) All of this gives direction to research that further elaborates, or develops typologies of, situations that give meaning to negotiating (and related) behavior.

Focussing on the process. While the source for negotiating behavior can be found most often in the situation, that behavior is best understood in terms of an ongoing process. In this research, process comes in several forms – stages, turning points and impasses, responsiveness, and the swings between polarized and moderated differences on values and interests. Although there are differences of opinion among analysts about the number and types of stages, most agree that the process moves forward chronologically and conceptually in either a linear or cyclical fashion. (See Gulliver, 1979 for a review of stage theories.)

The progression through stages is marked by turning points, which often follow impasses that threaten the sustenance of the talks. Our research has shown that impasses occur when one negotiating party attempts to adjust its "moves" in the direction of a tougher opposing party – a form of response referred to as comparative reciprocity. It may take a unilateral initiative by one of the parties to break out of this kind of behavior matching. Or, an external intervention may be needed to move the talks forward, and we showed that this occurs quite frequently in negotiations over security issues. Escalatory cycles occur also when values (or ideologies) become attached to issues. Through time and repeated interactions, negotiating teams become more polarized on value differences which, in turn, intensify the conflicts over interests. When this occurs the talks break down, as our Philippines' case study illustrates. To prevent this from happening, it is necessary to invoke mediating mechanisms such as cross-cutting interests or strengthening moderate voices within the teams.

Advantages of a multi-method, multi-site approach. Perhaps the most important feature of this research program is the methodological approach taken. Rather than to proceed in a linear or vertical direction from one experiment or case study to another, I have moved in a horizontal fashion between and across methodological approaches. Multiple concepts and multiple methods have been the hallmark of this journey. (See Campbell and Fiske, 1957, and Cook, 1985 for similar approaches.) In my quest for robust insights, I have extended the range of databases used to evaluate negotiating behavior.

In the work on flexibility, the earlier experiments on group representation became part of a greatly enlarged set of studies suitable for meta-analysis. The relatively small number of variables explored in those experiments also became aspects of the negotiating environment, as defined by frameworks, in the situational levers simulations.

In the work on responsiveness, the initial cases of base-rights negotiations and the SALT process, used to evaluate hypotheses about reciprocity, became part of a large database of eight cases used for a comparative evaluation of ten models of reciprocity. Movement from single to multiple cases is illustrated as well by the study of turning points. Building on analyses done in single cases, such as INF, base rights, North American Free Trade, we developed a framework for a comparative analysis of 34 international cases, finding – among other things – additional confirmation of the crisis (or impasse) -turning point hypothesis. The theory that guided the early experiments on values and interests was later used to guide an analysis of a complex case of internal negotiations. Moving from the laboratory ("indoors") to the field ("outdoors"), we were able to bolster our confidence in the relevance of our theoretical framework. Converging findings obtained in several arenas, using multiple methods, confers the sort of empirical robustness that enhances the validity of our constructs.¹³

The journey, spiraling from one professional and research setting to another, has been an interesting learning experience for me. It has demonstrated the value of flexibility in scholarship, a value that I learned in graduate school in the 1960s. That value has also included an obligation to share the scholarship with the social science research community, which I have done through Journal and book publications. Going beyond publication, however, I would be delighted if this research approach served as a model for the next generation of scholars in conflict resolution.¹⁴

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Notes

1. Earlier versions of this paper were presented at Harvard University's Program on International Conflict Analysis and Resolution (December 6, 1999) and at George Mason University's Institute for Public Policy (January 27, 2000). Thanks go to Herb Kelman, Nadim Rouhana, Donna Hicks, Deborah Kolb, and Wayne Perry for helpful comments.
2. In his study of careers, Driver (1982) proposed four types that he called steady state (the professions), linear (ascending ladders in bureaucratic organizations), transient (moving from one job to another with little thematic coherence), and spiral (thematic coherence across varied organizations and tasks). My career has been like a spiral with thematic coherence but variation in the way these themes have been pursued. In this paper, I highlight the themes that have woven through the diverse organizational settings in which I have worked.
3. Analysis of variance was the primary analytical technique used in both my master's thesis on group ethnocentrism and my doctoral dissertation on simulated collective bargaining.
4. The experimental tradition remains strong at Northwestern's Kellogg School of Management as evidenced in faculty and student presentations at the 1998 Hewlett Foundation conference.
5. My dissertation was awarded the best-in-field prize from the American Institutes for Research for dissertation completed in 1966-67 (see American Institutes for Research, 1969).
6. This framework is quite elastic. In addition to its use in depicting a wide variety of types of negotiations, it has been applied to such other topics such as the relationship between nationalism and war (Druckman, 2001).
7. Recent research by Cross and Rosenthal (1999) and by us raise questions about whether problem solving orientations *per se* lead to optimal agreements. These studies suggest that a focus on own and others' needs (problem-solving or study orientation) prior to bargaining may lead to more uncertainty and less optimism about the outcome than when bargainers adopt a mixed problem-solving and strategic orientation in preparing for the negotiation. While the problem-solving activities increase their understanding of the others' needs or values, the strategy development encourages them to articulate a path toward a desirable outcome. Less is known about how these activities should be sequenced in pre-negotiation or negotiation.
8. Narratives are in preparation for such other topical themes as power asymmetries, turning points, orientation conference size, and issue size.
- 9 This was a collaborative project between the Chicago-based Institute for Juvenile Research (IJR) and the University of Houston's Department of Psychology.
10. These two approaches to case analysis reflect the difference between the "Most Similar Systems Design" (MSSD) and the "Most Different Systems Design" (MDSD). The former, referred to also as focused comparison is based on the logic of experimental design. Similar cases are chosen in order to "control" for alternative explanations for differences found between them. The latter is intended to evaluate robustness in the sense of discovering relationships (between variables) that hold across the different political contexts. (For more on the alternative methodological strategies see Faure, 1994.)
- 11 The idea of process tracing comes from Bennett and George (forthcoming). It refers to an attempt to trace the path of past events that led to a particular outcome. It is done in the context of retrospective case studies and may be considered as a qualitative analogue to quantitative time series analysis.

12 The Pew Case Studies in International Affairs are distributed by the Institute for the Study of Diplomacy Publications, School of Foreign Service, Georgetown University, Washington, D.C. 20057-1025. A catalogue of abstracts of more than 200 cases is available from the Institute.

13 Another example of convergent validity is reported in an article, authored by Kevin Avruch and myself, appearing in the Spring 2000 ICAR newsletter. Using different methodological approaches, ethnographic and game-theoretic analysis, we arrived at the same interpretation of the primary motivation for the behavior of the rulers of the kingdoms in the ancient Amarna period (circa 1400 BCE). (See also Cohen and Westbrook, 2000.)

14 My research contributions to the next generation has also consisted of close working relationships with my ICAR (and GMU) student co-authors. These have included Susan Korper, Nimet Beriker, Victor Robinson, Jennifer Martin, Susan Allen Nan, Demostenis Yagcioglu, Moorad Mooradian, Mieko Fujioka, and Serdar Guner (a visiting scholar). Before ICAR, my student co-authors included Kathleen Zechmeister, Robert Mahoney, and Roger Krause at Northwestern University; Rhonda Love, Maurice Middlemark and Randell Gordon at the University of Houston; Dimetrios Karis at the University of Illinois, and Elaine Vaurio at Mathtech. Another student co-author from the University of California at San Diego, now at the University of Minnesota, is James Druckman.

INTERNATIONAL CONFLICT RESOLUTION

The Faculty of Arts and Social Sciences, Sabancı University, an English-speaking private university in İstanbul, Turkey, invites applications and/or nominations for two faculty positions in International Conflict Resolution.

Qualifications for the positions are as follows:

1. Ph.D. in Conflict Resolution or social psychology with a special focus on the role of identity, ethnicity and culture in regional and international conflicts and attempts to resolve those conflicts.
2. Ph.D. in Conflict Resolution or International Relations with a special emphasis on the role of international organisations, regimes, and the structure of international conflict.

Both candidates are expected to have strong theoretical and research skills as well as a record of successful teaching. Duties for both positions include teaching two courses per semester on the graduate and undergraduate levels and conducting publishable research.

Sabancı University encourages interdisciplinary teaching and research by specialists in all areas. Prospective faculty in Conflict Analysis and Resolution are expected to work closely with other specialists in the social sciences as well as management sciences.

Applicants need to include a resume, brief statement of research and teaching goals, and three of recommendation to Dean of Faculty of Arts and Social Sciences, Sabancı University, Orhanlı-Tuzla 81474 İstanbul, Turkey. All materials should be received no later than February 15, 2002.

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