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3	INITIALS	NOTE AND RETURN	
	DATE	PER USE - VERIFICATION	
4	INITIALS	TALK ME	
	DATE	SIGNATURE	
<p>REMARKS</p> <p><i>I have omitted some of the less important ESP papers. Dr. Murphy's Challenge of Psiysical Research is probably a better summary of the field than my evokement.</i></p> <p><i>My theoretical paper has been given a tentative OK in paragraph I from Dr. Russell TAPG Senior Research Physicist, Electronics and Bioengineering Laboratory, Stanford Research Institute and President of the Psychobiology Research Group.</i></p> <p>Do NOT use this form as a RECORD of approvals, concurrences, disapprovals, clearances, and similar actions</p>			
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1973

CRYPTOLOGIC ASPECTS OF ESP



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**Extra Sensory Perception and Telekinesis -
The COMSEC Threat -- A Brief**

INTRO: The Bulk of the attached report was written at a time before Extra Sensory Perception (E.S.P.)* had been established as a phenomena worthy of scientific inquiry. Since that time the American Association for the Advancement of Science has accepted parapsychology as a legitimate branch of Science. **Significant developments took place in 1972 at the Stanford Research Institute (SRI), where psychic Uri Geller was tested in guessing experiments involving dice. During the many randomized tests, whenever Mr. Geller said that he could guess the number on the dice correctly, he was able to do so. Ingo Swann and other psychics tested by SRI demonstrated the ability to describe distant rooms, they had never previously observed, with considerable accuracy. From 1970 to 1974 Mr. Clive Backster, a polygrapher, and other American researchers as well as Soviet researchers discovered that the bond between men and plants was often so close that the plant would respond automatically whenever the man was injured. It was as if the man and the plant had become a single organism. What affected the person seemed to also affect the plant instantly. In ESP occurrences between persons, this uniting bond* seemed to be the primary factor permitting the E.S.P. effect. It also appeared that some persons could bond readily and deeply with other

*See Glossary of terms on page 8 of the attached report.

**This took place at the AAAS meeting on 27 Dec 1968.

persons or objects. This bonding was often followed by the acquisition of insightful information available from no other sensory or logical source. The advent of groups devoted to psychic or insightful gifts has indicated that groups of mutually supportive E.S.P. seekers can achieve a greater degree of sensitivity than the interested person can achieve on his own. Spontaneous events occurring in primitive societies confirms this conclusion.

In 1974, ⁿmid-over-matter phenomena were given further credence by the remarkable experiments conducted by scientists Dr. Robert Miller of Georgia Institute of Technology and Dr. Philip Reinhart of Agnes Scott College of Atlanta, Georgia. Working with psychic Mrs. Olga Worrall, they were able to demonstrate energy effects willed by Mrs. Worrall in a cloud chamber. This test was reportedly performed at distances up to 600 miles away from the cloud chamber. Though more spectacular than most previous experiments, this latest work only tended to confirm what researchers like Drs. Hans Bender of Germany and Sergeyer of Russia had also found; that some people could emit energy of an unknown type which could move objects or interfere with electronic equipment. Such effects were more often spontaneous than intentional. The effect was usually directly related to the intensity of frustration experienced by an individual.

*The relationship theory of this unitary bond in Chapter I is my own sketch of this reality. I have shown it to ESP researcher physicist Russel Tang and discussed it with Professor Marthaler of Catholic University, a theologian. These and others of different fields have said that it was a good insight.

COMSEC Threat. Although at present only a very few persons are measurably gifted with ESP, the threat implications to COMSEC are profound. This is true because studies of primitive people indicate that general ESP ability level within a society does fluctuate in accordance with the emphasis placed on the subject by the society. Our present society is quite interested in this subject and many ESP study and development groups have formed throughout the United States. The anticipated growth in ESP utilization not only threatens the security of the U.S. and friendly nations' communications, but the whole security structure which relies so heavily on the ability to compartment and protect need-to-know. The person with highly developed ESP capabilities can disregard need-to-know and few would probably be the wiser until it was too late. The psychic would probably not concern himself with guessing most cryptographic keys but would attack the plaintext directly, either in the mind of the communicators or the originators or in the plaintext printed message. Uri Geller's reported performance with guessing dice seems to be more of a threat to small cryptographic materials such as nuclear command and control authenticators. With the advent of increased telekinetic ability, direct and subtle attacks against computers and computerized ciphers becomes a troublesome eventuality. With their high level stress factor, command and control centers become particularly vulnerable to such attacks.

Defenses. Fortunately, bond disrupting confusion, boredom, and meditation seem to provide some protection against ESP, as do certain religious practices. Unfortunately the offensive element has been subjected to far closer scrutiny than the defensive ESP factor. Much needs to be done to test defenses against ESP.

Psychology and Ethics. As you will soon note the subject of E.S.P. does not lend itself easily to the simple logical direct approach. The basic reason for this is that E.S.P. is an effect arising from the deepest level of the human being. At this central reality where man is at-one with all of reality, the various fields of human knowledge also become one concern. ESP cannot be treated simply as a psychological phenomena or a physical reality or just a powerful talent or only an ethical concern. The story of pandorra's box is an excellent analogy of the emergence of E.S.P. into the life of man. We cannot be so selective that we let out only the E.S.P. portion of the deep consciousness. When the lid is lifted the "monsters of the Id" also emerge and with them the sanctity of a Francis or a Teresa of Avila. It is no coincidence that the first modern head of state to dedicate himself to the use of the E.S.P. powers was also the man principally responsible for unleashing the most unspeakable horrors upon the earth - Adolf Hitler.

E.S.P. used by a cadre of unscrupulous or insensitive men would not only make a shambles of our need-to-know structure, but also threaten the state with a great malignancy. These powers cannot be ignored but only men of wholeness, of high moral development, should be encouraged to develop such gifts and allowed to use them in government. It ought not to be forgotten that Meninger Institute researchers as well as noted

parapsychologists have warned us that the occupational hazard of E.S.P. research is a virulent form of mental illness.¹

Conclusion. The attached report contains actually several reports written over the past ten years. Because there is little understanding of this new field and much resistance to it, many pages are expended in describing the nature of the phenomena. The longest portion of the study, surveys some significant research in the field, to establish the legitimacy of the ESP concern. This is a foundation study, an exploratory study. There are few certainties and no tidy conclusions. From the fearful experiences some government researchers have had, perhaps; we have learned that we are too immature to deal appropriately with such phenomena. In conversations with some talented cryptanalysts it has become apparent that NSA has made use of ESP for years. The gifted analysts admitted that when they are unable to develop an effective attack by logical processes, they perform a kind of mental switching to a higher unitary way of thinking. This is often symbolized in dreams. By this new way of thinking information is gained for which there is not really a logical explanation. Perhaps the best and most appropriate approach N.S.A. could use in dealing with this phenomena in-house, would be to identify such talented analysts, so that they can be used in teams on especially difficult problems. Otherwise, it may be best, for the time being, not to engage in E.S.P. development experiments within N.S.A. But a close watch needs to be kept on developments in the field. Although where talented psychics are involved in experiments, it is best, for security

¹John Peterson, "Science and Psychic Power," The National Observer, 20 Oct 1973.

reasons, that parties not knowledgeable in current N.S.A. classified projects, be used as observers.

Suggestions to Reviewer. Because few people are conversant with the field of parapsychology the report contains much foundation and explanatory material. If the reviewer is aware of the nature of E.S.P., of scientific work in the field and of Soviet Bloc research, I suggest he concentrate only on the Introduction and Chapters I, VI, VII and VIII. Chapter VI is a unique cryptographic experimental study designed by the author with professional review.

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INTRODUCTION

A Descriptive and Experimental Study of Cryptologic Aspects of ESP

This paper is intended to present a series of contributions toward a more complete knowledge of certain special factors bearing on threats to COMSEC. In particular, this study seeks to increase our knowledge of one factor known as PSI* or ESP. This ability is presently little understood and could considerably enhance a human being's capability to guess: the correct order of randomized key settings or the relationships between our operations code groups and their meanings, the underlying plaintext of an encrypted message or to influence an individual's use of keying material to a hostile analyst's advantage.

In order to make this first study as meaningful as possible, it was decided to make an overall survey of the investigations presently conducted into the PSI factor to determine: which aspects of the factor are most closely

*An unknown qualitative and quantitative factor which enables a person to know clairvoyantly telepathically or to exhibit mind-over matter capabilities. See Glossary of Terms for basic definitions, page 8.

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related to the problem of human ability to correctly guess randomized cryptographic information at better than chance expectancy on a continuing basis (see Chapters I through VII); which environmental characteristics enhance or retard the manifestations of the PSI factor (see Chapters I, II, VII and VIII); what are the most useful sources of information available to keep abreast of the latest meaningful developments in PSI research, with attention paid to sources related to Soviet Bloc efforts in this field.

After this data base was established it was decided to develop, under professional supervision, a PSI experiment utilizing all factors possible which are known to enhance PSI performance and particularly to build an experiment which is specifically related to the COMSEC question of guessing randomized cryptologic information. Such an experiment would serve a dual purpose: It would isolate subjects which appear to be capable of demonstrating a more efficient use of the PSI factor than the average person (see Chapter VI); and it would provide a vehicle for testing such a subject in order to learn more about the factors which enhance or inhibit the operation of the PSI factors,

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especially in the cryptologic environment. It would also develop a method of training talented personnel in the cryptologic uses of ESP.

To date, the following steps in the PSI study have been accomplished on a time-available basis:

A survey has been made of the work being done in the field of PSI research (see Chapter III).

PSI factors most directly related to the COMSEC threat have been tentatively identified. These PSI factors are: telepathy (thought transference), precognition (the ability to know what is going to happen in the future), clairvoyance (the ability to observe objects not available to normal sensory detection), and PK or telekinesis (the ability of one mind to move objects or emit energy).

With the assistance of professional PSI and psychological experts within the intelligence community,* a cryptologically appropriate telepathy/clairvoyance experiment was constructed in such a way that it would utilize a maximum number of performance enhancing factors. (See Chapter VI, Inclosure C).

*Dr. C. E. Lease, PHD (Psycholophysiolgicst-Parapsycholgicst), Dr. Gerald L. Daniel, M.D. (Psycholgicst), and Dr. Melvin A. Gravitz, PHD (Psycholgicst)

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It will be noted that the testing method used bears some resemblance to that of Dr. Rhine, in particular. There are however, some notable differences. The material is cryptographically constructed using NSA random generation. The subject is forced to make a double guess on target material which thus yields far more performance characteristics for statistical and psychological analysis. The subject receives prior motivational conditioning. The target material has realistic or lifelike characteristics and can be tailored to the subject's preferences.

Current sources of PSI experimental research have been located and are being utilized to enhance NSA knowledge of this field. In particular, note the Soviet Bloc material sources in Chapter IV (see especially Inclosure A: Selected Bibliography). It is interesting to note that Soviet experiments are funded under the Ministry of Defense and are mainly of the telepathy communications and PK variety.

Research into psychogenesis indicated that both spontaneous episodes caused by sudden anger or frustration and controlled experiments can have an electromagnetic effect (See Chapter VII). An experiment is being designed to test the effectiveness of PK in jamming modern low voltage

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electronic communications security equipment. Some spontaneous PK events have indicated that persons with a low frustration tolerance and no normal outlet for this energy are prone to release this pent-up force through the PK channel. Being aware of those relationships, we might design experiments around such persons and suitable frustrating stimulus, which they can only halt during a specified period of time by using PK to alter voltage in a target circuit.

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Glossary of Basic Terms

ESP: The apparent ability to perceive thoughts, events or objects in a manner and under conditions of space and time usually not possible and beyond the normal capability of the bodily senses.

Telepathy: The apparent ability of the mind to know what is being thought or felt by another at a distance beyond bodily perception range.

Clairvoyance: The apparent ability to mentally observe what is taking place in a distant place, beyond the range of normal sight.

Precognition: The apparent ability of the mind to foresee future events.

PK or Telekinesis: The ability of the mind and will to focus energy of an unknown type on an object and move it or cause it to malfunction or to change the alignment of object substance so that one object can interpenetrate another.

Relationship: That absolute reality by which all entities interpenetrate, fertilize and participate in one another to

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form existent being and to develop higher levels of being.

Participant in Relationship: Any entity solid, liquid, gaseous plasma, energy or field state which is an existent entity in relationship.

Psychic: A human being capable of ESP to a measurable degree or such an ESP talent specifically, or another name for PSI energy.

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Chapter I

ESP - Extra Sensory Perception (Primary Communication)

An Explanatory Observation-The Nature and Structure of PSI

In the past few years fundamental changes have taken place in our understanding of ESP. The old mind-to-mind communication concept of telepathy has been supplanted by a new model which emphasizes the oneness of the sender and receiver. American experimenters, Clive Baxter and Eldon Bird, as well as Soviet researchers V. N. Pushkin, and V. M. Fetison have been able to demonstrate that between man and plants a bond can form which makes the plant, in a sense, an appendage of the man, a part of him. This unitary existence is so intimate that if the man is seriously injured even at a distance the plant will show a measurable heightened response at the moment of injury. The results of these experiments are reported to be repeatable with a high degree of consistency. It seems that the humble plant more than establishes the validity of the ESP phenomena as a basic unitary communication.¹

¹Backster Clive, "Evidence of Primary Perception in Plant Life," Intl., Journal of Parapsychology, Vol. 10, No. 4 Winter 1968, pp. 329-348.

Hashimoto, Ken. Choshinrigaky Nyumon (Japanese Work on Psychic Research, Tokyo 1964

Pushkin, UN "Flower Recall," Ananya Sila, Nov 1972, in Russian

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Such results have given researchers a deep insight into human ESP. ESP seems to take place at the deepest levels of human awareness and communication. It appears that there are roughly seven levels of human communication depth which we may rank as to increasing intensity and increasing risk to self.

<u>Activity Type</u>	<u>Risk to Self</u>
Clichè (merely a recording)	5%
Reporting history or dry data with little personal material included	10%
Reporting on others	20%
Reporting own thoughts	40%
Expressing feelings (because so much of a person is involved with his feelings it is no wonder that mental illness always includes emotional illness)	70%
Sharing the most intimate experience - dreams, hunches, ESP visions, poetry, diary, etc.	80%
Sharing whole self, total empathy with the other to the extent that what happens to you happens to him, at-one-ness.	100%

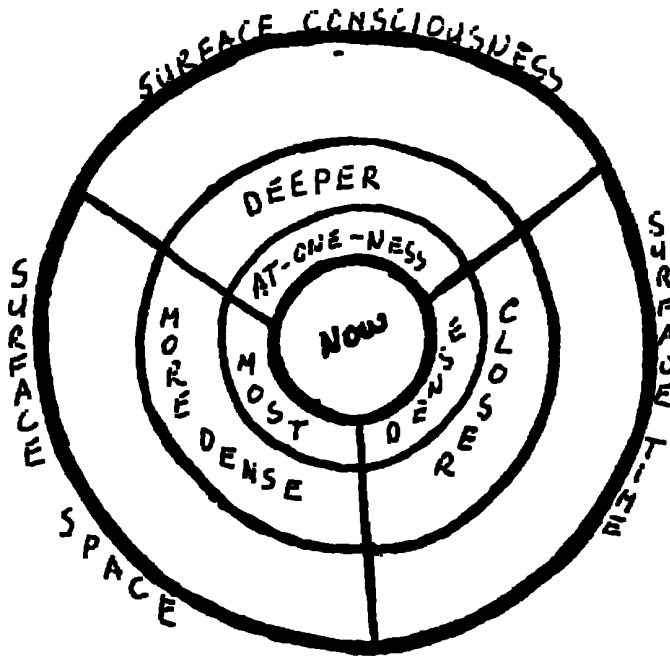
Each of these levels seems to deepen in the level of consciousness as it deepens in intensity of communicative bond. It also appears that as the bonding intensifies the relationship between time and space becomes more dense and concentrated.

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Surface time is that conceived of by man as a unit of measurement which proceeds from the now instant, backwards into past and forward into future. As the level of human consciousness deepens the past and future appear to be constricted into a now which includes both future and past. Such ambiguities beneath the surface of things are not new to the physicist. He would consider it most inappropriate for one to ask where an electron is at any particular moment in its orbit. It seems that one model of consciousness time and space reality in deepening levels of intensity would look like so:

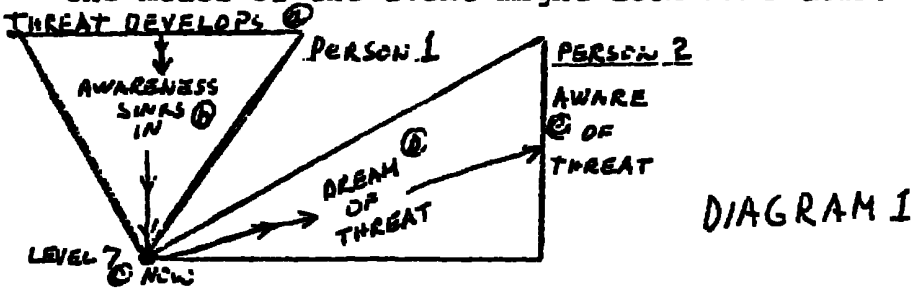


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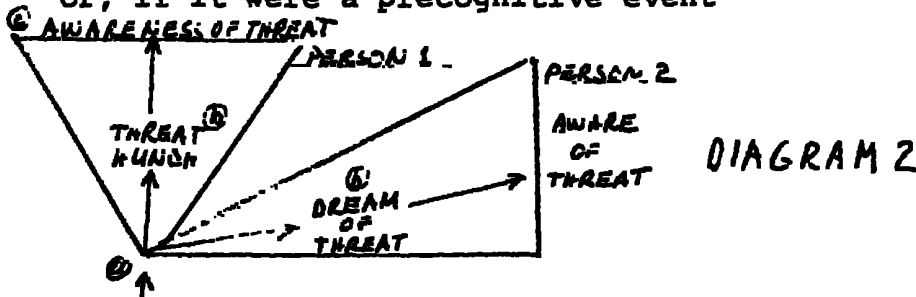
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What all of this means is that when a person or (living thing of any kind) is threatened and that person or living thing is "close" to you - you are also feeling the threat at the same instant because in a sense you are that person (by empathy) or you are a new unitary being which includes both of you as participating organs. The information of threat first enters the receiver where it is felt first which is where the person is most at-one with the other

One model of the event might look like this:



Or, if it were a precognitive event



The united awareness observes a surface future threat in the now and passes it upward.

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The fact that these models have some validity is indicated by all known accounts of ESP, ancient or modern indicate that it took place as a dream, hunch, or vision - the accepted language of the deep consciousness. Russian, European and American experimenters all acknowledge that over 90% of known ESP spontaneous episodes take place between close friends or the members of a family. Talented sensitives are aware that they have an uncanny ability to emphasize or "absorb" others (see chapter 1 appendix; Summary of An Extrasensory Event to Illustrate stages of the developing relationship bond). The scriptures and wisdom literature of all major cultures consistently associate these ESP powers with deepening capabilities of at-one-ness. In Christian scripture this is particularly evident in John's Gospel, Chapter 14 to 17 and in Paul's letter of the Corinthians, Chapters 12 to 14. Much the same outlook is evidenced in the work of ChuanqTzu the Taoist, the writings of the Moslem Sufis the Jewish Hasidim and the Zen masters. Most writings emphasize the great danger of concentrating on acquiring powers rather than improving the bonding capability - out of which all power comes, in their view.

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It appears that by concentrating principally on at-one-ness we are merely putting things in their proper perspective. Dr. Einstein noted that nothing exists by itself that all things exist in relationship with something else. Although it is often not taken this way, it is evident that Dr. Einstein is referring to an absolute reality, The Relationship. Existence is not possible without it. Unless a proper relationship exists between the parts, not even our bodies can function. If one organ or function is given too much emphasis the whole system goes out of balance and a degenerative relationship begins. This is no less true with ESP. If only the ESP aspect of a person is deepened, the whole psychological structure becomes unbalanced and severe mental illness results.

One of the principal reasons ESP has been shunned in the past by orthodox science is that it appeared to conform to few known scientific laws. But of course, this is not so. It conforms as we observe with the principal law or absolute of the at-one-ness relationship. As the intensity of the multilevel bond increases between people, a deeper relationship of at-one-ness exists until the two have become a kind of new unitary being (or a single field entity). This

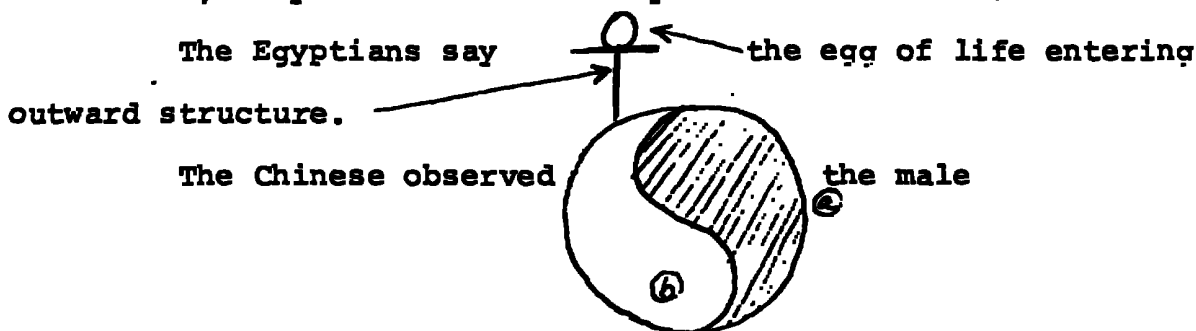
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being has a kind of unitary mind, which knows what is happening to both participants at the same time. This knowledge takes place at the deep level of the Now world which is beyond time and space as we know it, in the surface world.

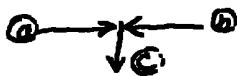
How does the relationship look in a simplified sketch?

For over 4,000 years Man has attempted such a sketch.



(substance) yin (a) filling in the female container (b) and all things in a state of energy flux between being filled and emptied, but all were one in this relationship.

Binary math used the 0 and 1 in much the same way. In the 19th century Hegel added the concept of thesis (a) antithesis and synthesis. But his was a world in conflict:



The thesis and antithesis were destroyed in forming the synthesis.

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In the model of the atom, modern physics has given us a glimpse of the fully balanced interpenetrative relationship. The proton neutron and electron share one another, experience one another and continue to exist as separate entities while still forming a new entity, the Atom. This model seems to work for all known relationships. If we see the neutron as the intermediate zone or buffer or partner of interface, the relationship would look something like so: Thing or state \oplus which is more, attracted to thing or state \ominus which is less, or complimentary: To facilitate exchange of input they form a buffer or mixture \oplus which also assures their continued separate existence. In a balanced relationship the \oplus becomes another partner and a new entity $\oplus\ominus$ forms at the next highest level of being.

As the atom is real with traits of its own, so is the human entity of relationship the family. As the atom forms compounds so families form tribes and nations and these are real entities with perhaps a consciousness of their own. To illustrate further: when we see the child as a bond between the mother and father, it is not hard to understand that half of his genes come from mother and half from father. Nor

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is it unexpected that his principal character traits come from the two parents. But the relationship is subtle. A participant is ⊕ at one level and in one direction while at the same time he is ⊖ in another and ⊕ in another. Because all entities are continually being fertilized by all other participants their identities continually change and are created anew.

As the ESP effect is observed to be in direct proportion to the intensity of the multilevel bond between persons, then the principal effort in developing talented people should first concentrate on their ability to form deep multilevel balanced bonds. The whole person must be developed at the deeper level. An unbalanced emphasis on only the ESP faculty often leads to severe neurosis and psychosis according to Menninger Institute psychologists and parapsychologists alike.² Such unpredictable people are untrustworthy to themselves, their families and to the intelligence community. It is more than a clichè that power corrupts and absolute power corrupts absolutely. For the intelligence community to be

²John Peterson "Science and Psychic Power" The National Observer 20 Oct 1973.

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able to use such people in relative safety they must be as developed ethically and morally as they are psychically, or we might as well forget need-to-know and compartments. This calls for an inner discipline of the whole man which goes far beyond the rationalized ritualized mass-produced religion we are all familiar with. It is no coincidence that the growth and development of meditative and contemplative disciplines has taken place concurrently with the development of national interest in ESP. It appears that the person who wants to develop those deeper insights and powers must experience that which is one, complete and whole or become unbalanced.

This development seems to take place best in the believing community. This is not just a community that believes in strange phenomena but a group of people strong enough to relax in one another's presence. This group of people would be courageous enough to accept themselves and others for what they are and allow others to be what they are - trusting that any talent or capability emerging in the person who is trustworthy will be of value to the community. These are persons who trust what they experience because they trust in their own integrity as persons.

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APPENDIX

Summary of an Extrasensory Event to Illustrate Stages of the
Developing Relationship

A Lawyer Mr. D.F. is asking Mrs. Barbara about the details of an accident through the researcher. The accident happened two years ago:

Barbara: A policeman hit the car broadside, as it was crossing an intersection near the train station. The lady who was a passenger was killed.

Barbara: I feel very cold (emptying of self concern and orientation toward other?) nervous very upset. (Entering into policeman in relationship-emotional level first). The policeman, he is going too fast. (rational knowledge secondly?) He sees that he is going to hit the car. He panics, instead of turning the steering wheel immediately he turns on the siren. He gets confused. It's too late. She was in the car crossing from left to right up the street. Check the policeman's driving record. He has had problems with speeding before.* Your friend won't

*Past present and future derivations. Both intuitive and logical analysis are used.

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have any trouble with this case in court. If he really questions the policeman carefully especially about his previous record for reckless driving, he will breakdown very easily*. He feels terrible about all this*.

Researcher: There was a witness up the block who says that the policeman did have his light on before he turned the corner.

Barbara: No that is not right he didn't see that. He was afraid of the police. He just said that to keep out of trouble. Besides, he was talking to another person at the time. He was facing the building when the car went by. He couldn't have seen whether the light was on or not when the car turned the corner.

(Later) Researcher: Dick, Barbara said the above, is any of it true, do you know.

Dick: Some of it I know is true. The guy was talking to someone up the block. Did you tell her anything more.

(Researcher: No Dick, I didn't. I was surprised when she correctly stated that the car came from left to right.

*Fast present and future derivations. Both intuitive and logical analysis are used.

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Dick: How about that part about the policeman turning on his siren right before the accident.

Researcher: I didn't tell her, I didn't even know that.

Dick: Well she was right.

(Later) Researcher: Barbara, Dick says you are right, about a lot of the details. He asked me how you do it. What training do you take. What is your technique.

Barbara: None of that. It is a gift from God. I went through this very trying period and I changed; my relationship with him became very much closer and I just started being able to do these things. I feel that I am being used to give forth this information.*

*Harry Gross had a similar experience as did Wolf Messing of the Soviet Union, a surprising admission coming from a Communist. He stated that as a teenager he was very devout and had a religious experience. After that he had always been able to do such things as mind clouding and clairvoyance. All three of these people claim a very idealistic relationship with their God and other men. Does this form of disinterested relationship yeild the greatest information about the other because it encourages the greatest access and flow with the other? It is consistently reported that it does.

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Chapter II

How to Safely develop ESP Through An Organism Type: The Believing Community

In a recent film interview Dr. Rhine was asked to describe those conditions which seemed to enhance ESP. He isolated basically two: High motivation on the part of the subject and a sympathetic testing environment. This comes very close to saying a Believing Community.

Outside the laboratory, ESP seems to function best in an organism type environment where the perceptive capability satisfies a real need such as protection against threats of various kinds or other basic needs such as food or to maintain communal ties over vast distances. Laurens Van Der Post* tells us that the African Bushman regularly amazed his party by informing them that someone, who the tribe knew, was going to enter camp some days hence, though the distances involved were too great to have know such information by ordinary means. During one hunt the party

*Laurens Van Der Post, discoverer of the Bushman and author of two books detailing his discoveries: "The Heart of the Hunter" and "The Lost Land of the Kalihari."

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was met on its way back to camp by a jubilant tribesman who said he came out to meet them because he had known along with the rest of the tribe that the hunt had been successful and that the great Eland had been taken.

In parapsychological studies of the Australian Bushman similar capabilities were noted under similar conditions of great distance and a need for information exchange which could not be met by normal modes of communication. These Bushman were given European ESP tests and scored generally 2 to 4 times higher than the average European. Their means of contacting each other over moderate distances was apparently to build a fire which sent up a thin column of smoke. This attracted the attention of another Bushman who when he saw such a signal was observed to squat and take a thoughtful pose. He later would explain that somebody wanted to talk to him. Interviews with European bosses of the tribesmen revealed a remarkable ability of the Bushman to know of family tragedy in far away areas without radio.

As pointed out previously, most spontaneous ESP type events take place between members of a family or close friends. Where is such information more likely to receive

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a sympathetic ear? Where would the motivation be higher to acquire threat information than in this smallest of Believing communities?

There is doubt whether any really significant parapsychological results will be obtained outside of such Believing Communities and realistic motivation. Such communities are springing up all over the U.S. today and much work needs to be done with them. The two principal types of these communities are the Occult and the Charismatic. Of the two the Charismatic appear to be of a more permanent variety and more likely to tolerate close scrutiny. The encouragement given to clairvoyant and other perceptive capabilities is intense. The communities are generally under 50 in number and their personal bonds become very strong. The model of their organization and motivation is found within the New Testament in I Corinthians.

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Chapter III

E.S.P. - A Threat to COMSEC. A Survey of Open Literature.

The author surveys open literature to determine whether there is acceptable scientific proof of the existence of the parapsychological phenomena herein described as "telepathy" and "clairvoyance," and classed under the general heading of "extra-sensory perception" (ESP) and to determine whether such phenomena, if they exist, constitute a significant threat to the COMSEC equipments, devices, and materials of the United States or to the classified information protected by such equipments, devices, and materials.

Experimental Difficulties and Deficiencies. Many, if not most, reputable scientists have been skeptical as to the scientifically provable existence of phenomena which could be adequately demonstrated to satisfy the current definitions of telepathy and clairvoyance. Some of the reasons for their disbelief include: the difficulty of isolating a phenomenon which, if it exists, would be subject to extreme variations caused by human factors, such as boredom, fear, and mere whim; the lack of precision in the definition of the talent under study; and the scarcity of clear manifestations of the "psychic" talent to be tested. Some scepticism also resulted from

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frequently inconclusive results of experiments* and the inability of trained experimenters to develop repeatable experiments showing a continuing high rate of ESP performance. It has been suggested that, when a psychic -- a person alleged to have ESP talent -- of considerable reputation was involved, this problem was the result of testing under environmental conditions not tailored to the peculiar needs of the talent being tested.

Significant Experiments and Observations. The following describes and comments on a few of the more significant ESP experiments which have been conducted and the results which have been obtained. Late in 1961, a small group of scientists formed a research team under the auspices of the Cambridge Research Laboratories, Office of Aerospace Research, United States Air Force, to establish a scientifically unbiased method for testing and evaluating the ESP hypothesis. In their report the group explained their views and aims as follows:

"Parapsychology, of which ESP is a branch, is not transitory. The subject is attracting the attention of an increasing number of respected scientists. With reports of significant ESP performances growing in number, it is

*The concentration by many scientific investigators on testing for ESP capability in the "average person" (who could possibly show only an incipient capability, nearly impossible to demonstrate conclusively), instead of concentrating on specific persons reputed to have considerable psychic talent, may be a contributing factor.

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apparent that the time is fast approaching when objective and emotionally unbiased scientists, using rigorous experimental techniques, must test the ESP hypothesis in order to make clear the nature of these phenomena to themselves and to the public. Moreover, until a sizable segment of the orthodox scientific community displays the integrity and courage to conduct a series of appropriate experiments and publishes both positive and negative results impartially, the ESP controversy will never be resolved. With this connection in mind, the authors converged on the problem of experimenting in ESP in order to:

- (1) test their own skills in experimental design by applying them to this little-known area;
- (2) developed the knowledge which could lead to intelligent evaluations of existing studies and opinions in the field;
- (3) have first hand ESP testing experience with subjects in a controlled environment;
- (4) gain experience in analyzing ESP type responses in a rigorous statistical fashion; and,
- (5) evaluate various data collection, data reduction and statistical analysis techniques for application to ESP data.¹

Repeatable Experiments. One of the chief aims of the continuing Air Force studies in this field is to devise a repeatable experiment. As they state in paragraph 3 of their

¹Testing for Extrasensory Perception With a Machine, William R. Smith, Everett F. Dagle, Margaret D. Hill, John Mott-Smith, Defense Documentation Center for Scientific and Technical Information, Alexandria, VA. p.2

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initial report,

"Opponents of ESP emphasize that a repeatable experiment has never been designed in this field. This standard is justified from a physical sciences standpoint, where repetition of experiments and consistency of results are mandatory and historically have been achievable."²

No persons who appeared to have any significant ESP capabilities were found by the Air Force team during their first tests. It may be significant that the team confined its testing exclusively to "average persons" having no prior record of exhibiting ESP talents. It was also noted that little thought was given to tailoring the testing methods to conditions under which the phenomena might most readily be manifested in the test subjects.

The Air Force Team makes use of the "sheep" (believers) and "goat" (non-believers) method developed by Dr. Gertrude Schmeidler³ of the Psychology Department, City College of New York and R. A. McConnell of the Biophysics Department, University of Pittsburgh.

Repeatable Techniques. Schmeidler has been partially successful in developing a repeatable technique which could be used over and over again with consistent results. Over

²Ibid, p. 3

³Dr. Schmeidler presented a paper to the APA on ESP research in 1967. She is a respected researcher in the field.

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a three year period she tested, (using the 5 symbol ESP cards) in six large scale experiments, the hypothesis that belief or disbelief in the reality of ESP would incline her subjects to succeed or fail in the task. Working with decks of cards placed in another room or locked in a closet, she consistently obtained higher scores from those who believed in ESP.⁴

On one series of more than 4,000 tests, the "sheep" deviated from the chance expectation by +614 and the "goats" deviated by -301.⁵ Dr. Schmeidler was not contending that her own experiment was needed to prove the ESP hypothesis. In her own report, "ESP and Personality," she explains,

"Why so many scientists are still unconvinced ... uncareful reading, lack of knowledge of experiments with tightly controlled conditions (such as those) performed by Pratt and Woodruff in 1939."⁶

She also points to phenomenal scores under conditions of considerable distance such as those obtained by B. F. Riess in 1937:

"Subject lived about a quarter of a mile from him. She (subject) agreed to stay while she made her responses in a

⁴Parapsychology, Colliers Encyclopedia, 1972, Vol. 18, p. 436

⁵ESP and Personality, Dr. Gertrude Schmeidler, R. A. McConnell, Yale and Oxford University Presses, 1958, p47.

⁶Ibid, p17

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room which faced away from his house ... Out of 1850 responses (using the five symbol ESP cards) where chance expectation was 370 successes, the obtained number of successes was 1349."⁷

Environmental Selectivity. Schmeidler's examples and her experiments are impressive; however, she still neglects environmental selectivity and the testing of a well defined talent. The Pratt and Woodruff experiments (referred to by Dr. Schmeidler) were particularly impressive. Under very well controlled conditions, where the tester was not even aware of the successes of the subject and the results were locked in a box, on 2400 runs of ESP cards the subject scored results against which the odds of chance happening were one in 500,000.

Noted Psychic. Between 1952 and 1955 Dr. Andrija Puharich, MD,⁸ ^{EXPERIMENTS ON .} conducted a "noted psychic." One of the more interesting experiments was described as follows:

"The electrical target was a random generator pulsed by big cosmic ray showers, and a moving paper graph recorded on ON switching period (of ten seconds). This provided an electrical target appearing in a random sequence which followed

⁷Ibid, p7

⁸Puharich is particularly noted in the ESP research field for his novel Experimental Designs - His controls were often below present standards but were not below other testing controls of the periods in which they took place - His primary interest was exploratory, not advocative.

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a Poisson distribution. The subject was separated from the electrical target by a distance of 0.3 miles. The subject was further shielded from the electrical target by being stored inside the double Faraday cage⁹... "Mrs. Garrett (the Psychic) was asked to call the arrival time of the cosmic-ray pulse that activated the pen, and was allowed 15 seconds after the target in which to qualify for a hit. In group 5 of the test experiment of Project IV there appeared a total of 59 targets, and these were distributed in the Poisson series with a mean of .475. In relation to these targets Mrs. Garrett made 61 calls distributed in the Poisson series with a mean of 0.491. Statistical analysis of group 5 yielded a critical ratio of 4.87 with a probability of 0.000001, or odds against chance of a million to one. The uncharged cage, control experiment yielded a critical ratio of 1.08 or chance expectation. The critical ratio of difference between these two experiments is 4.43 (P=0.000005). This result was considered statistically significant and argued for extrasensory cognition on the part of Mrs. Garrett.

⁹A copper-screened cubical enclosure on insulating supports, the purpose of which is to permit an electrical field to be placed around the person to be tested for ESP. The Faraday cage is supposed to isolate the person from incoming electromagnetic signals and to prevent the person from transmitting such signals beyond the cage.

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However, because of the possibility that large cosmic-ray showers could simultaneously strike the target area and the call area, it was felt that the evidence for 'no electrical interaction' was incomplete."¹⁰

The controls for the experiment, as they are represented by the doctor, seem to be good. The experiment appears to be tailored to Mrs. Garrett's talent. The results appear to be significant evidence in favor of the ESP hypothesis, except for the qualification made in the last sentence quoted above, which (at the least) shows an unusual human sensitivity to cosmic rays.

Spontaneous ESP. Between January and October 1956, Dr. Puharich conducted a series of experiments testing the capability of the noted Dutch psychic, Peter Hurkos. Among the most significant were the following demonstrations of "spontaneous" ESP, all of which occurred before witnesses and two of which involved persons of good academic reputation.

"The object contained in a sealed package I (Professor C. J. Ducasse noted ESP investigator of Brown University) gave Mr. Loring to submit to Hurkos for Psychometrizing¹¹ is

¹⁰Beyond Telepathy, Andrija Puharich, Doubleday and Company, Inc., Garden City, New York, 1962, p214.

¹¹"Divination by physical contact or proximity of the properties of things touched or approached", New Practical Standard Dictionary, Funk and Wagnall. More accurately, the touching of the package enabled Mr. Hurkos to use it as the + or means of interfacing with the inside contents o.

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a small pottery jar, that was broken but mended, which was given to me in 1922 by the late Dr. Stevenson Smith, Professor of Psychology at the University of Washington. He said it came from the ruins of Pompeii. in Italy, buried in 79 A.D. in the ashes thrown up by eruption of Vesuvius...Mr. Hurkos said... 'this object blew up-an explosion. There was an explosion a long time ago. I hear the language, It is very old. It had to do also with water. I don't know what it is. I see a dark color. It is not straight, not regular, it very jagged, sharp points. I am sure of this. Dr. Ducasse' didn't buy this. It was given to him, and it was repaired. A souvenir. I am sure the owner of the cylinder is dead. I do not mean Dr. Ducasse; he is well.'¹²

"Julian Huxley (the noted scientist) and his wife visited the Laboratory on the twenty-sixth of August 1956. In this test Mr. Huxley handed a sealed envelope to Harry Stone, who went to the opposite side of the room. Peter Hurkos was to concentrate on Harry Stone holding the sealed envelope to see if he could get any impression. These are his words ... 'I now go to the hospital room and I see a bureau and a blonde woman. I see a woman who lives outside of town. A musical

¹²Beyond Telepathy, Dr. Andrija Puharich, M.D., Doubleday and Company, Inc., Garden City, New York, 1962, p47.

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person. A ring has been lost. The woman had an accident on the legs ... I see airplanes and bombs. 'Don't forget me, Frank and Lillian would.' I see writing on a photograph. I feel a woman."

Hurkos was wrong, but he realized that the picture described was, in fact, in Mr. Huxley's wallet and normally touched the test picture.

"Mr. Huxley affirmed that Hurkos' description of the photograph still in his wallet, sketchy though it was, was accurate."¹³

"A friend of mine gave Peter Hurkos a letter sealed in a manila envelope. Hurkos handled this letter and then made the following statements to my friend in my presence.

'This letter is from your wife. She seems to be in good health at the moment, but she will have trouble with her female organs.'

Hurkos then drew a diagram of the uterus and the Fallopian tube with a large mass in the center portion. Hurkos then went on to say that in about six months the female organs would give rise to complications which would require surgical intervention. Six months after this reading the woman in question began to develop severe cramps, irregular bleeding

¹³Ibid., p54

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and low back pain ... At the Mayo Clinic a hysterectomy was performed ... The left Fallopian tube had a large sealed-off mass."¹⁴

"Two business men, Mr. C. V. Wood and Mr. Tom Slick wanted to test Hurkos' ability to get intelligence from an object sealed in a package. At this time, May 1959, Hurkos was staying in Miami and two gentlemen visited him there. They had arranged to have Mr. Wood's secretary, in Los Angeles, California, mail them a sealed package whose contents were not revealed to them until after the experiment was completed. In this particular instance Hurkos was not allowed to touch the sealed package. Furthermore, it was held by another gentleman who went into the next room so that Hurkos could not even see the shape of it. Hurkos' statement ...

'I see in this package some brown hair from a dog. I see a leather collar from a dog with brass trimmings on it. This package is about a small dog, brown in color. The dog has a lame left hind leg. The owner of the dog does not know what is wrong with it ... The doctor thinks that it is some sort of an arthritis. I think that this ... is due to neuritis. I believe this will be cured by some sort of shock...'

The sealed package contained some brown dog hairs, and it contained a metal chain from a dog. There was no leather

¹⁴ibid., p51

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brass-trimmed dog collar in the box ... The other statements were remarkable in their knowledge of the situation. The dog in question was a brownish poodle called Cocoa. The dog had been sick for several weeks, limping and favoring his left hind leg ... The most curious aspect ... a week after the reading by Hurkos, the dog was hit by a car but merely rolled over, and after this accident the limp disappeared and the dog has been well since that time."¹⁵

These "spontaneous" performances are as controlled as is possible under the circumstances. The relation of chance to these demonstrations represent either fraud or the unique expression of genuine talent. With the caliber of the witnesses involved, fraud seems unlikely.

On January 1941, Dr. S. G. Soal,¹⁶ highly respected scientist, began a series of tests for telepathy and precognition which were to last for a year. The principal subject was Mr. Basil Shackleton. Previous experiments has shown that Shackleton had achieved significant positive results. His talent had a peculiarity, however; previous results had shown that Shackleton's correct card guesses were always related to the card which the sender had just previously transmitted.

¹⁵Ibid. p50

¹⁶Senior Lecturer in Pure Mathematics, Queen Mary College, University of London - Fulbright Research Scholar in 'Parapsychology (1951).

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Soal was particularly interested in verifying both Shackleton's talent and its peculiar manifestation. More than 18,000 individual tests were performed. Shackleton showed only a slightly higher-than-chance expectation on direct calls of the card being looked at:

Trials	--	3,946
Expected Hits	--	789
Actual Hits	--	829
Deviation	--	+40
Standard Deviation	--	-25 ¹⁷

However, when the card calls were related to the card immediately preceding the one being concentrated on, the results were quite different:

Trials	--	3,789
Expected Hits	--	777
Actual Hits	--	1,101
Deviation	--	325
Standard Deviation	--	-25 ¹⁸

"In other words, the (Shackleton) 'telepathy' experiments show odds against chance of at least ten million to one."¹⁹

¹⁷ Modern Experiments in Telepathy, S. G. Soal, Yale University Press, New Haven, p149

¹⁸ Ibid., p149

¹⁹ Ibid., p151

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The character of the experimenter, the careful tailoring of the experiments to the talent of the 'psychic' and the tight scientific controls, the experimental results must be seriously considered as showing very strong evidence in favor of the ESP hypothesis. (This view is shared by L.L. Vasil'yev, The Principal Russian Experimenter, see pp38 and 39 of his work, Suggestion at a Distance.) As Vasil'yev also shows, scientific reviewers generally hold Soal's work in high regard.

TV Summary of ESP Research. On June 16, 1966, ABC-TV presented a documentary entitled "The Baffling World of ESP." Many scientists studying in the field were represented. Among them were psychologist Gardner Murphy, psychiatrist Montague Ullman, and physicist Henry Margenau. The participants were as varied in their nationality as in their scientific and psychic talents:

English medium Douglas Johnson gave (before the camera) a convincing demonstration of ESP. He revealed many detailed facts about a woman and her father, neither of whom he had previously known (according to the TV network).

Dr. Milan Ryzl PhD, of Czechoslovakia, gave a partially successful demonstration of the gifts of one of the clairvoyants which he trained by hypnotic methods. A representative of the University of Utrecht, who further represents the parapsychological institute of the University, had been observing Dutch psychic Gerard Croiset for several years.

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He testified that Croiset had repeatedly demonstrated, during the period he was under surveillance, an amazingly dependable ability to find lost people, especially children.

Croiset's performance was particularly convincing. Even though lacking laboratory controls, the probabilities involved in consistently being able to find lost persons are obviously well beyond chance, especially when the location of such persons was often not known by anyone. Such a long surveillance should have uncovered any fraud.

Of particular interest in the field of parapsychological research is the quality and quantity of Soviet Bloc research being conducted. A partial list of Bloc scientists involved would include Milan Ryzl (Czech), M. Kantorovich (Russian), Dr. A. V. Dubrovskiy (Russian), B. Kazhinskiy (Russian), Jirina Dumasova (Czech), Edward Naumov (Russian), V. Bekhterev (Russian), Dr. G. V. Reyts (Russian), K. I. Platonov (Russian), Dr. N. A. Panov (Russian), K. D. Kotkov (Russian) and, particularly, Leonid L. Vasil'yev (Russian). The effort which the admittedly materialistic Soviet Bloc researchers are expending in ESP research is remarkable. The sophistication and positive results achieved by the Bloc effort are exemplified by the description of the following series of tests carried out by L. Vasil'yev in 1961 or 1962:

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"The subject, awake, was given the instruction to rhythmically press on the balloon (connected to a rotating kymograph drum (like a seismograph)) .. at a given point, unknown to the subject, an indicator in another room gave her the mental suggestion to fall asleep .. The pneumatic recording of her movements continued while she was still awake. However, the moment the percipient (subject) was hypnotized, the movements stopped and the recording equipment marked an even line. (When suggested to wake up) the percipient with no additional instructions renewed her squeezing of the balloon, interrupted during her hypnotic sleep."²⁰

Three subjects were tested in this experiment. There were 260 tests of mental hypnosis and awakening. There were 6 failures to wake and 21 failures to hypnotize the patient within a 10-minute period. In 91 instances the percipient responded to the command within 2 minutes after it was given; 73 of these responses were within 1 minute. This experiment was scientific, repeatable and convincing evidence for ESP. Vasil'yev's book, Suggestion At a Distance, contains the following quotation on p38, in which the

²⁰Suggestions at a Distance (Notes of a Physiologist) (A translation) Leonid L. Vasil'yev, Gospolitizdat Publishing House, Moscow, 1962, p85-90

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English philosopher George Price* (remaining unconvinced of ESP as being supra-normal) acknowledges the successes of parapsychology:

"A peculiarity of our times is the fact that in the past 15 years (i.e. from 1940 to 1955) there has hardly been a single scientific article criticizing the work of the parapsychologists. This victory is the result of thorough, extensive experimentation and sensible argumentation. The best of Rhine and Soal experiments in guessing cards indicates a tremendous difference compared to any possible accidental coincidence. The possibility of prompting is almost excluded since the cards and the percipient were in different buildings. Positive results were obtained from dozens of experiments ... And the mathematical computations were approved by leading statisticians."

Price remains unconvinced because parapsychology is "incompatible with modern scientific theory."

It can be concluded that, despite over-zealousness, carelessness and exaggerated carefulness on the part of scientific investigators, there is, in the aggregate, solid evidence that:

*Price is a long time member of the British Institute for Psychic Research. He is a psychic investigator of considerable reput and healthy skepticism. It was Price who conducted the ten-year study of the Haunting of Borley Rectory - A notably detailed and careful analysis of a most persistent phenomenon.

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Some men who are talented in a PSI direction can know other men's thoughts, sometimes, and it is not necessary that the talented person be within what is considered the normal human sensory range. (Telepathy has been asserted by reputable witnesses to have taken place over a distance of many miles).

Some talented men are able to perceive objects inside other solid objects, to describe such hidden objects in detail, and often to describe personal details of persons who previously had touched the hidden objects without having any other access to such information. Such "clairvoyant" performances have been observed (by reputable witnesses) to take place where the "clairvoyant" merely touches, but does not rattle or shake, the outside container. Sometimes this type of person is able to describe internal conditions of human beings in detail when said persons are miles distant (again, according to reliable witnesses).

Because of the detailed accuracy in the "clairvoyant" descriptions of some of the experiments and because of the ability of some of the "telepathic" receivers studied to "tune in" on the mind of the pre-selected sender, ESP can constitute a significant threat against COMSEC equipments, devices, and materials, if such a talent is developed to a

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a dependable degree. Because of the small pool of dependable "psychic" talent, such a threat would probably be used only against selected high-echelon diplomatic or military communications. Some of the most lucrative targets for such a threat would seem to be: the message drafter, the message typist, the clear-text message in a known place, the man who keys the crypto machine or the crypto device and the cryptomaterial user or handler, keying materials (the simpler in construction the greater the likelihood of their vulnerability), the encrypted message, and the encrypted signal.

There is some indication from the ESP tests studied, that talented "psychics" operating in teams might increase the reliability and accuracy of the material psychically perceived.

Very few naturally gifted "psychics" with continuously dependable talents exist today, and the ability to train such talent does not presently exist. Although Dr. Milan Ryzl of Czechoslovakia has demonstrated some limited success in training psychics by using a hypnotic technique.

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(Both of these assertions are universally acknowledged by reputable investigators).

There are indications that physical conditions can be created which will hinder the operation of the "psychic talent" (boredom, and even small increases in the normal levels of carbon dioxide and positive ions can hinder good performance²¹) as well as promote its positive achievement (sleep, hypnosis, chemical stimulants and negative ions promote good performance²²). Appendix A contains a summary of optimum conditions for "telepathic" interaction as described by the Russian parapsychologist, Vasil'yev and the American, Dr. Puharich.

²¹ opcit., Beyond Telepathy, p14 and Suggestions at a Distance, p47-59

²² opcit., Beyond Telepathy, p14 and Suggestions at a Distance, p47-59

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APPENDIX A

OPTIMUM CONDITIONS FOR 'TELEPATHY'

Using ideas or mental images on which the inductor (sender) has concentrated his attention to a maximal extent.

Using ideas or mental images which have emotional value to the inductor and receiver, consciously or unconsciously.

Using a clear image deliberately guided toward the intended recipient.

Testing while the percipient (receiver) is in the state of neutral consciousness or trance, hypnosis, sleep, great fear, concern or a feeling of sensitivity.

The existence of a feeling of success on the part of sender and, especially, the receiver.

The existence of "telepathic rapport" between sender and receiver.

Permitting the sender to determine the time of image or idea transmission.

The prior establishment in a period of time close to that of the testing period, of good normal communications between individuals participating in the test, as spontaneous

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cases of telepathy often occur between persons who have a depth of common concerns such as members of the same family.

The development of "spontaneous" atmosphere around the target material on constructing the test environment in such a way that it offers a considerable challenge to the percipients' capability .

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(Note: See Chapter 5 Appendix A for complete Listing)

Union of South Africa

Mr. Maurice C. March

Rhodes University (Union of South Africa)

United Kingdom

**Prof. C. A. Mace
Mr. William G. Roll
Prof. H. H. Price**

**University of London
Oxford University (Parapsychologic Laboratory)**

United States

**Dr. Gardner Murphy
Director of Research**

Menninger Foundation (supported by Grant of Ittleson Family Foundation)

**Dr. Montague Ullman
Dr. Stanley Krippnes**

William C. Menninger Dream Laboratory Brooklyn New York

Dr. J. B. Rhine

Duke University

Dr. G. D. Wasserman

(Grant from Durham University)

**Mr. E. Douglas Dean
Dr. Putthoft
Mr. Russel Targ
Dr. Thelma Moss**

**Newark College of Engineering
Stanford Research Institute (University of Stanford)
UCLA Neurological Institute**

Mellon Charitable Trust (supports work at University of Pittsburgh)

Parapsychology Laboratory, St. Joseph's College, Philadelphia

Laboratory For Psychological Physics University of Pittsburgh

Human Echology Fund of New York (grant to Oxford)

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APPENDIX B

MODERN WORK IN THE FIELD OF ESP - A PARTIAL LIST

As of 1954 and beyond, work on ESP was being conducted or supported by the following additional persons and institutions:

Canada

Parapsychology Laboratory,
University of Kings College,
Halifax

Germany (West)

Dr. Hans Bender

Institute for Mental Hygiene
and Border Line Studies,
Frieburg (Germany)

Netherlands

Dr. W. H. C. Tenhaett,
(Prof. of Parapsychology)
Mr. J. G. Van Busschbach

University of Utrecht (Chair
of Parapsychology)

Mr. Geimans Baugmans

Groningem University (Holland)

Spain

J. Riccardo Musso
(Prof. of Parapsychology)

Universidad del Litoral (SPAIN)

USSR

P. I. Gulyayev

Leningrad State University

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Chapter IV

ESP and Earlier Soviet Research

After a careful study of numerous CIA and FTD reports of Soviet ESP research, the following general information concerning such research was derived. Between 1960 and 1966 Russian ESP research went from a position of official toleration to considerable official support.

The research plan of Russian research is reported to be:
To find out who are suitable subjects for ESP research; determine the proper conditions for successful ESP experiments; develop the biophysics of ESP; study the electromagnetic spectrum as a possible transmission source; study field and wave theories as they may be applicable to ESP; understand ESP from the cybernetics point of view.

No detailed results of ESP experimental successes have been published in recent open Soviet literature; however, the effort being expended by the Soviets in this field and the range of uses which they envision for ESP indicates that some meaningful results have been produced by their efforts. It is interesting to note that recent Soviet publications of ESP research have lacked the more detailed quality of the professional report and have tended to be more general and aimed at propandandizing:

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The amount of research effort being expended by the Soviets is indicated by the number of personnel and institutions apparently involved in ESP research; these include:

Moscow - Biological information section of Moscow Scientific technical Society of Radio Engineering-(Department of Technical Parapsychology)

--Dr. E.K. Naumov (Pres)

--AM. S. Smirnov, Dr. Prof. Sig Gershteyn, A.S. Pressman, AI Potekhin, V.A. Kholodov, Mr. Martin Wadim (50 scientists in all). Institute of Problems of Transmission of Information-Dr. D.G. Mirza (DIR) Dr. Smirnov, Miss Kisilova, Mr. I.V. Mirzalis. Unassigned-Eugent Faddeev and Y.U. Makarenko,

Leningrad - Leningrad University Telepathy Laboratory (8 rooms) Prof Vasiliyev (dec) Prof P.V. Tarentiev, Prof. A.D. Alexandrov, Prof Perov, Dr. P.I. Gulyaev and Dr. P.I. Bull (15 scientists in all).

Kiev - Biocybernetics Department of the Institute of Cybernetics, Academy of Sciences Ukranian SSR, Kiev - Dr. Prof N.M. Amosov, Director, Dr. B.B. Kazhinskiv, Prof N.A. Raevsky, psychologist, Dr. T.A. Timofesovich, Dr. Petrov, Mr. LI Plushch (12 people in all).

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Omak - Dr. Zavada Valeri.

Sochi - (7)

Saratov - Dr. V.V. Safronov

Tarty - Dr. Pumlilia Augustovna

Odessa - Mrs. S.T. Niklaevna

The following possibilities for using ESP are being considered by the Soviets:

Some Soviet scientist consider that ESP could be "accomplished with the help of a still unknown type of energy or a factor inherent only to the highest form of development of matter--the substances and structure of the brain. The discovery of this type energy or factor would be the equivalent of the discovery of atomic energy". Some of these scientists feel an unknown energy "possibly akin to gravity and neutrinos is involved". They also feel that "in the future, machines on the moon or in the ocean will be controlled by thought." Such ideas are not mere idle speculation. This type of energy is considered seriously by such diverse minds as the Soviet N.A. Kozyrev and the French scientist-philosopher Tielhard de Chardin. Experiments are carried out by Jule Eisebud, M.D. in the United States and Dr. Barnard Grad of Canada, tend to substantiate the theory that such energy exists.

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Dr. Eugene B. Konecchi, Director of biotechnology and human research at ^ANSA's office of Advanced Research and Technology stated during the 14th congress of the International Astronautical Federation (1963) that the Soviets are giving top priority toward the study of "electromagnetic communications between living organism" under their manned space program. Dr. Konecchi confirmed that NASA is persuing similar research.

A report stated "From the talks of the prominent scientists I could gather that research in the field of telepathy is being conducted from the point of view of defense quite actively particularly in the problem of transmission of information and in the problem of guiding the movement of inter-continental rockets (using) pigeons." This would be an emergency measure to counter jamming - intentional or unintentional. Presumably the transmission of information could also be concerned with the transmission of Soviet agent communications or the intercept of Western defense information.

Thought control is another area in which the Soviets are trying to utilize telepathy. Many modern psychologists and psychiatrists believe that the unconsciousness of man (in which ESP operates) provides part of the information which is used by

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men to make decisions or form opinions. The Soviets would like to influence this unconscious information fill and thus influence world attitudes as well as those of their own citizens.

[redacted] stated "B.B. Kazhinsky has envolved a system of using telepathy in education not only for knowledge, but also for transforming characters." [redacted] states that "The Soviets have extended Pavlovian experiments to individual human beings to groups and even to societies. They are utilizing electronic computers in their experiments at giving them control of entire populations."

Some developments in Soviet ESP research include:

A successful telepathy transmission of 12 out of 25 pictures from Moscow to Novosibirsk (6 of which were satisfactorily received and 3 very good) - Tass 9 Oct 1966.

A successful telepathy experiment in which the hypnotized subject was made to fall asleep or awaken in four out of five tries - Tass 9 Oct 1966.

A nationwide telepathy experiment is to be carried out within the next few months^{of 1967}. All Soviet citizens have been alerted to this test which will originate telepathy transmission from Moscow at scheduled times. This test has been characterized by CIA as a nation-wide talent hunt.

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Chapter V

Soviet Bloc Report Science and Parapsychology.

One of the most critical aspects in the development of any new technology or field of science, is the caliber of men working in the field. There are a fairly large number of Soviet scientists (See Appendix A and B), investigating various aspects of ESP. Some of these men are the leaders of less controversial fields of science. Perhaps a comparative study should be made based on past experience (The amount of high caliber effort focused on a particular problem in the past as related to the speed with which the particular problem was solved) to indicate the approximate time period remaining to us before Soviet science begins to bring the practical applications out of the field of Parapsychology.

In view of the recent Soviet emphasis on the new type of energy aspect of the field, it appears that this suggestion would be timely. As of 1972 between 13 and 20 million dollars are reported to be invested in Soviet ESP Research in 20 or more centers of research.¹

¹Lamothe, John D. Controlled Offensive Behavior DIA, 31 Jan 72 p24
St-CS-01-169-72

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Soviet field research directed toward the isolation and investigation of PSI energy seems to have made some significant discoveries in 1969 in spite of some considerable opposition in Soviet official and scientific circles.

One of the most intriguing developments during the year was the seminar of studies and experiments concerning the tele-Kineticist Kalugina. (Nelya Mikhalova). A film of her capabilities has been made, viewed by western observers and portions of the film were copied from the screen and brought back to the U.S. The chief Soviet Parapsychologist, Dr. Edward K. Naumov, asserts that the powers of Miss Kalugina has been observed by Professor Terlexry a well known Soviet physicist, who postulates some new kind of energy to explain this capability. This considerable interest in the Kalugina capability seems to be somewhat related to the 1968 Soviet scientific interest in Ted Serios who was able to produce a photograph, using mind energy alone, of a Soviet rocket never before known to be available in Western communication or news media. The authenticity of the missile was vouched for by Professor Vikon Y. Animov of Oronezh State University while he was in exchange professor at Nebraska University.

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During the Kalugina experiments a new device called a wireless EEG was used to detect some sort of energy pulsing around Kalugina while she was demonstrating the PK effect. Other reports indicate that these same, rather sophisticated devices have been used to test clinically dead people. When ordinary EKG's and EEG's register nothing, these detectors register some sort of energy. (Dr. Abram Hoffer and Dr. Harold Kelm of the University of Saskatchewan are doing similar research with devices of a much similar design.)

Western observers report that the best parapsychological work done in the Soviet Bloc countries was being done in Bulgaria by Dr. George Iazanov. He has been in the field for over 30 years. He claims high level support and possesses the only nationalized psychic in the world, Vanga, who is famous all over Eastern Europe and even in USSR. Iazanov is reported to have many institutes all over Bulgaria filled with costly Italian instruments and equipment. He appears to have free access to Western Parapsychological Journals and has travelled through most of Western Europe and recently in India.

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APPENDIX A

Russian - Dr. G.A. Sergeyev - Invention of wireless EEG, works in a Military Lab.

Dr. I.M. Kogan

Dr. L. Paulova

Dr. Nikolai Kozyrev - Conceives time as a carrier of telepathic information.

Dr. Pavel Gulyayev - Of Leningrad Laboratory describes the biological plazma on electrical aura.

Dr. Smirnov

Prof. Terlexky - Well known Soviet physicist has observed telekiniticist, Kaluzina and postulates some new form of energy to explain her feats.

Engineer Viklor Popovkin

N.A. Valus - Well known physicist - works on serious photographic effect

Prof. PK Oshchepkov - Inventor of radio location in USSR - well known specialist in field of introscopy also has a new energy concentrations theory to explain the serious effect.

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- Prof. Viktor Anifimov - Physics exchange professor at Nebraska State University authenticat Seyios photographs of Soviet Bloc. Rocket, not seen before in the U.S.
- Bulgaria-Dr. Georbe Lazanov - Leading Parapsychologist in Bulgaria and sponsor of Vanča Dimitrova, famous clairvoyant who is nationalize by the Bulgarian government and is well known in the Soviet Bloc and even in the USSR. Lazanov is very powerful in Bulgaria.
- Czechoslovakia -Dr. Zdenek Rejdak - Psychologist and nerophysicologist, a leading Czech (PSI) researcher and exponant of hypnotic method (good friend of Sergejev in Leningrad)

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APPENDIX B

Report Subject: Soviet Opposition to
Research in Parapsychology/ description of
Filmed Experiments with Nina Kalvgina Date 14 Feb 1969.

Report Subject: Validity of Nelya
Nikhavlova's claim to telekinetic Power/GA Sergeyeh's Wireless
EEG Date 29 Apr 69.

Report Subject: Soviet interest in Ted
Senios claim to extrasensory Perception Qualities Date 22 Apr 68.

Report Subject: Recognition Given
Dr. George Lazanov and Parapsychology in Bulgaria Date 18 Apr 69.

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Chapter VI

Testing for the Cryptologic Aspects of ESP

The purpose of the ESP experiments herein described is threefold:

- To determine what effect human extra-perceptive capabilities, temporarily categorized as telepathy and clairvoyance, could have on the COMSEC posture of the United States. The prime target areas being considered are: code and cipher keying materials and encrypted text; underlying plain text of encrypted messages; and knowledge of message originators or processors.

- To determine what factors enhance the phenomena known as telepathy and clairvoyance and what factors detract from its operation. Factors thought by researchers to contribute to performance success are listed in appendix A. Those included in preliminary tests and fully controlled tests are indicated by asterisks. It is hoped that knowledge of such factors will provide useful defensive security knowledge, should a COMSEC threat be realized in this area.

- To find talented subjects so that A and B above can be determined.

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Experimental Material: It was decided at an early stage in the project that combinations of code groups and their meanings would be used as target material for the tests.

The reasons for their choice were:

- It made the tests related to the Agency mission.
- By using combinations, it would be possible to obtain 100 guesses out of only 50 transmissions. It was considered that the resulting abbreviation of each testing session would inhibit the decline factor* which has so often detracted from the results of previous parapsychological tests.
- Subjects could be convinced that the test involved a real Agency problem which immediately increased interest and attention.
- The material permitted flexibility. Symbols or meanings having idiosyncratic significance for the subject could be isolated, which permitted some tailoring of the test to the personality of the subject.

*Note the decline factor is an constant decline in positive test results in written tests of knowledge or ability in human beings.

The principal cause apparent to be boredom. Individual significance for that participant person.

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- Code group-meaning provided a constant context, a fixed environment condition or relationship.

- It was not difficult to adapt the material to statistical procedures* already established in prior psychological and parapsychological research.

Preliminary Tests - The purpose of the preliminary tests was to test the text, and thereby, to ascertain if it were a useful tool. Those who acted as participants (receivers) in the preliminary tests were young college graduates, about 40% of them male and about 60% female. The groups tested were from virtually every state in the union.** The attitude toward the test was typically one of considerable interest combined with an ambivalent hope-fear attitude of individuals toward exhibiting the phenomena themselves.

Randomness - The order of the 50 transmissions was put into a random matrix such as that in Appendix B1. The random pattern itself was chosen by one tester from available

* Accepted mean choice expectancy statistics used for testing randomness.

**Note principally just an observation but could have significance as a degenerative effect caused by bond interfering different cultural biases.

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Agency produced crypto-material. (Since only 5 possible combinations of code groups and meanings were used and each future combination was automatically designated A, B, C, D, or E, these letters rather than the actual combinations themselves were randomized). The randomized matrix was kept in a safe prior to the test to preclude access by anyone, except the tester and the transmitter themselves. The combinations were randomized at the last minute as a further safeguard. (Appendix B2).

Conditioning - The recipients were given an ESP pep talk before the test to heighten their enthusiasm, and an attempt was made to have the students verbalize their thoughts on the subject in order to enhance the conditions of normal communications in the hope that channels of unusual communications would thereby also be enhanced. Students were encouraged to choose code group meanings which had significance to them. Although in one session the transmitter was permitted to establish the timing of the transmissions, this was found to make the test too lengthy. It was finally decided that transmitting at a steady 10 second interval was most comfortable for all concerned.

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Physical conditions and controls - During the best controlled preliminary test, the percipients were located in a room about 40 feet away from the transmitter who was in an outside hallway in an alcove (see appendix C). There was a monitor posted with the percipients and with the transmitter. Timing was passed by word of mouth from a monitor who was stationed with the transmitter.

Experimental Controls - In order to separate those who might have a more active ESP capability from those who might not, a simple test was designed with no stringent controls. The statistics are the same as those of the Rhine cards, but in this instance 5 love-hate symbols (cross, swastika, heart, U.S. flag, and peacedove) were substituted for the usual symbols. It was additionally decided that any one who achieved 12 or more correct guesses or 9 or less correct guesses would be included in the experimental group. It is interesting to note that the two symbols which were received best, even by subjects who only guesses 5 or 6 correctly, were the cross (22% of the correct guesses) and the U.S. flag (20% of the correct guesses), followed by the swastika (18% of the correct guesses).

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Results - In this test, each combination of code group and code meaning was counted as two guesses. The mean chance expectancy (MCE) for 100 guesses where the possibilities are 1 in 5 is 20 correct (although it developed that the actual mean for 35 subjects and 3500 guesses was less than 18%). The expected standard deviation (SD) is plus-or-minus 4. All of this indicates that those subjects who scored more than 24 correct guesses show a deviation in favor of the ESP hypothesis. Correct combinations were also studied statistically. The same laws apply; however, the expectancy in this case is for the MCE to be 2 correct with an SD of 1 in either direction.

The 12 members of the experimental group showed a total positive deviation of 26 hits above the expected SD of 60 for 12 people.

The 10 members of the control group showed a total positive deviation of 5 hits above the expected SD of 50 for 10 people. The control group also showed double the total negative deviation of the positive group below the SD--a minus 8.

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Within the experimental group there were 4 individuals who scored double or more the number of correct hits expected. One of these individuals was who scored 29 correct guesses on the code groups or meanings -- more than two times the standard deviation: This subject also scored an unusually high number of hits on guessing combinations -- 6 instead of the expected 2.

Within the control group no extraordinary positive deviations occurred except where one subject guesses 5 combinations correctly; however, 5 fairly significant negative deviations from MCE were scored: two of minus 7 and three of minus 5.

Preliminary Test Conclusions: Since the controls of the experiment were not considered stringent enough to eliminate all possibilities of unusual sensory perception, it must be concluded that the testing method was only possibly an acceptable vehicle for isolating the ESP phenomena.

It was decided that further tests would have to be made of high scoring subjects from the preliminary phase to insure intended purpose.

It appears that some subjects who in the first preliminary test were told that they did no better than average tended to suppress their ESP capability which had the result of producing a significant negative deviation in the second preliminary test.

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Fully Controlled Conditions: With some exceptions the approach, attitudes, and preparatory steps used with the fully controlled ESP test were the same as those used on the preliminary tests. The principal deviations from the original conditions were in the nature of:

- A more complete indoctrination of the percipient in the aims of the tests, and the conditions thought to enhance test performance (as indicated in appendix A). The indoctrination stressed among other things the probable Agency use for the ESP capability, as well as the fact that the development of ESP was part of an overall personality enrichment effort.

- There were three series of tests conducted, each consisting of 50 transmissions of 50 code group/meaning-combinations. Each test lasted approximately 30 minutes.

- More stringently controlled conditions:

Although the random matrix for scrambling the basic code group-meaning combinations were still made up days ahead of time, the random sequences of the combinations themselves were made up at the last minute by a monitor, not normally associated with the tests, who flipped a coin to decide which random sequence to use.

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The transmitter was isolated from the receiver by a distance of approximately 1.5 miles. The receiver was placed under the scrutiny of the Agency psychologist, Dr.

[REDACTED]

Timing was provided by using synchronized electric clocks activated by a single short phone call from the tester who stayed with the transmitter (under monitoring). The ten second interval was maintained by the monitor at each end verbalizing each numbered interval.

The tests were marked by Dr. [REDACTED] or another monitor at the receiver site.

5 or 10 warm-up questions were used at the insistence of the receiver.

In test two the receiver was known to be having a personal disagreement with the transmitter but the test was allowed to continue in order to observe the effect this might have.

In test three another transmitter was added to the first transmitting in hopes that this might offset any negative attitudes that might have carried over from the

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conditions existing under test Nr. 2. Note that this transmitter was retained because Miss [] had such good rapport with her during the preliminary tests. The receiver room was subjected to jackhammer-like noises. The transmitter site was also subject to temporary disruptive noise (door knocking).

Test three was conducted under extremely adverse conditions. The receiver was under constant scrutiny by 2 guest observers.

Controlled Test Results: Under preliminary test conditions where test conditions were not strictly controlled, Miss Cullison scored a total of 88 correct guesses of code groups and code meanings (individually tabulated) out of a total of 300 guesses. With a standard deviation from MCE being 60, Miss [] scored more than 4 times the expected deviation. Similarly the subject scored correctly on 19 combinations where MCE is 6 and the SD 2 or more than 6 times the expected rate.

Under fully controlled conditions, Miss [] still continued to score significantly but lower than under the preliminary tests. With the same number of total guesses

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involved as in the preliminary tests Miss [] made 77 correct guesses for individual code group and meaning or about 2.4 times the expected rate. The subject also guessed 10-combinations instead of the expected 6 or twice the expected rate.

It should be noted that Miss [] scored highest in both categories on the last test (the most difficult in terms of conditions). On this occasion she was asked if she thought she had gotten any one combination correct more often than any other. She correctly replied SCO-attack which constituted 4 of the 6 correct combinations which she guessed on the third test. (In two preliminary tests Miss [] had duplicated this feat. In both instances the code meaning had been the word retreat. In the first such instance Miss [] guessed 6 combinations correctly, 5 of which contained the meaning "Retreat". The total combinations involved were the usual 50. Under similar conditions Miss [] again guessed 5 combinations correctly, 4 of which contained the meaning "Retreat")

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It should be noted that on the occasion of her final test, Miss [] was asked if anything disturbed her during the test. (The transmitters had estimated that around question 24 there had been a disturbing series of knocks on the door of their room. This question was checked off on the answer sheet). Miss [] replied that around question 20 she felt like giving up -- an intriguing coincidence, the exact same thoughts were going through the transmitter's mind at that time.

Controlled Test Conclusion: The test methods used, if carefully, are probably effective for the isolation and further testing of some persons who have a measurable ESP capability.

Since Miss [] scored more significantly under conditions which were more competitive and encouraged greater intragroup communication, these conditions should probably be given more emphasis in future tests.

On three tests (two preliminary and one fully controlled) Miss [] seemed to display an affinity for a particular code meaning. If such an affinity should prove to have any durability, it could be of measurable benefit to cryptanalysis.

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Since Miss [] scored more significantly when there were two transmitters, the possibility of enhancing percipient performance by using groups of transmitters should be given greater emphasis. In this connection, it might also be beneficial to score groups of receivers in a collective manner, i.e., if 3 out of 5 people guess combination A, it is considered the group answer.

It is considered that other test methods involving more realistic situations might measurably enhance test results. It appears that personality clashes* between transmitter and receiver tend to cause a lack of interest on the part of the persons concerned, which may result in a near average performance by even talented subjects.

Miss [] ability to produce near random guesses of target material appeared to be considerably above average.

The above test results indicate that human ESP capability provides a better than chance expectancy result on random cryptographic material. For this reason the human ESP

*They had a couple of fights and began to dislike each other.

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capability could be a significant threat to U.S. COMSEC in all of the categories indicated in paragraph 1A. In view of the results, the National Security Agency cannot afford to remain ignorant of the scientific advances in utilizing or developing this field.

Recommendation:

It is strongly recommended that the Agency seek to acquire all available information on the subject of ESP research

It is recommended that the Agency's psychological testing program be amended to include a test such as that reported above which would serve two purposes.

To isolate "super guessers" or persons who have a knack for cryptanalysis

To isolate persons who have a high ESP potential.

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It is recommended that future ESP tests concentrate on the collective testing and scoring of groups of receivers and transmitters.

It is recommended that some real material be included for ESP targeting in future tests.

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APPENDIX A

Factors Considered to Benefit the Operation of ESP Tests:

- xxx 1. Creating a realistic situation.**
- xxx 2. Getting transmitter and receiver to concentrate on sending and receiving with each person considering the other as the intended target.**
- xxx 3. Conditioning the subjects to react to the material properly to consider the test important.**
- xx 4. Testing subjects who have demonstrated an ESP capability by some degree.**
- xxx 5. Give feeling of success to sender and receiver by praising positive and negative deviations.**
- xxx 6. Transmitting of targets in some sort of context or natural environment.**
- xx 7. Limiting each testing session to a short period.**
- xxx 8. Building on success by eliminating unsuccessful materials or conditions and conserving successful ones.**
- xxx 9. Trying to open as many channels of normal human communications as possible - and opening them wide!**
- xxx 10. Synchronization of sender and receiver.**
- xx 11. Using groups of transmitters.**
- 12. Testing groups of receivers in some collective way so as to discover even slight trends in responses which defy chance.**

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xx Included in preliminary tests
xxx Included in controlled tests

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APPENDIX B

Initial Random Matrix of code group-code meaning
combination positions derived from Agency Random sequences.

<u>Position of Transmitted Group</u>	<u>Agency Random Sequence</u>
1	A=WTA - Women and Children
2	E
3	B
4	C
5	A
6	A
7	A
.	.
.	.
.	.
50	B

Combinations receive their A, B, C, D, and E designations by means of two more random sequences used to mate the members of the combination, see below.

After an arbitrary A, B, C, D, or E designator is appended to each code group and meaning, a random sequence is used to determine how they are to be mated. A separate random sequence is used to rearrange the order of the code groups and code meanings. If, for example, E should be the first of the five letters to occur in the random sequence

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assigned to code groups, WTA (below) would be the first partner of combination A. Similarly, if B were to be the first letter to occur in the random sequence assigned to the code meanings, then Women and Children would be the code meaning assigned to combination A. The same method is used to determine the remainder of the combinations to be transmitted.

B	SCO	Attack	A	Code Combination A = WTA Women and Children
C	MRV	Target	B	
A	BXY	Killed	C	
D	PLK	Women and Children	D	
E	WTA	Intelligence	E	

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Participants of the AD/HOC
testing group include:

Mr.

Dr.

Mis

Mrs.

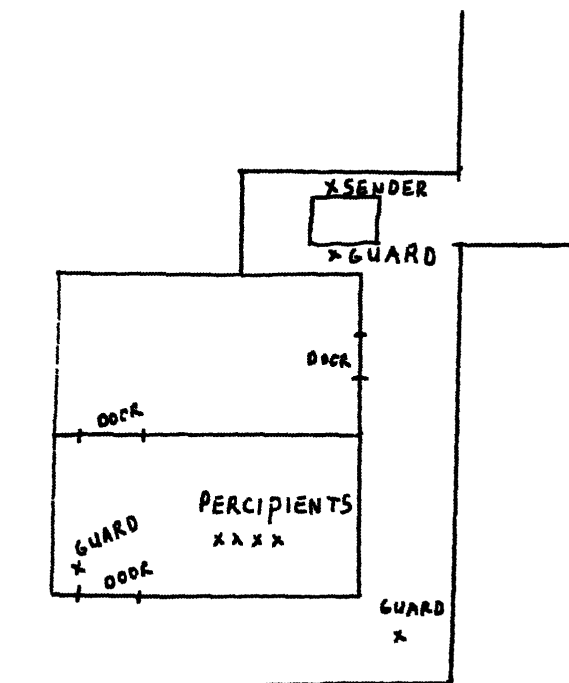
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APPENDIX C

PRELIMINARY TEST ARRANGEMENT:



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Chapter VII

The Potential Threat of PK to COMSEC

In order to discuss the title question meaningfully, it appears we will have to consider two more basic questions.

- Is there strong evidence supporting the existence of PK phenomena and its relationship to stressful situations, where frustration within a person causes the buildup of energy that expresses itself in PK demonstrations.

What effect could such a phenomena have on the SIGINT community.

There is significant evidence supporting the existence of the phenomena and its connection with frustration. The famous psychiatrist Hans Bender investigated two celebrated cases in Germany: "The "Rosenheim" Case of 1967" and the "Bremen Boy" case of June 1965. The Rosenheim case of 1967 was also investigated by two physicists Drs. F. Nanger and G. Zuha, who also supported the reality of some of the unusual phenomena.¹ It all began in late 1967 in a lawyers

¹Henry W. Pience, Science Looks at ESP, New American Library Inc., New York 1970, pp. 86 and 87.

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office in Rosenhiem, Bavaria. Neon lights blinked off and became unscrewed, Electric light bulbs exploded and usually high telephone bills were attributed to the number 0119 (the dial-a-time number.)

The town sent the assistant director of the electric company and his electricians to investigate. Using a voltage recorder they detected unexplained deflections (or up to 50 AMPS) associated with the strange phenomena. To rule out the possibility that the town's power supply was causing the unusual problem, a separate generator was used to provide the building with power. Still the phenomena persisted. When physicists F. Kanger and G. Zuha observed the same phenomena they also noted that the house voltage remained the same. This led them to conclude that the phenomena was not electrical but that an "unknown energy" must have "mechnically" acted on the pointer of the recorder."²

A team of Parapsychological investigators headed by psychiatrist Dr. Hans Bender was called into the case. Dr.

Alan Vaughn, "Pollergeist investigations in Germany", Psychic, The Bolen Co., San Francisco, California, April 1970, pp. 12 ; 13.

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Bender's suspected that this was a case of "Poltergeist" (PK) phenomena and began to look for the usual cause -- a young person with unresolved conflicts. He found such a person in Annemarie Schaberl. She hated her work and impatiently awaited the end of each working day. She was most distressed in the late afternoon. The time when hundreds of calls were registered for "0119" -- The number of "Time".³ The phone was closely observed during these periods but there was no dialing motion to be seen. Instead it appeared that the "girl's unconscious PK somehow seemed to have tampered directly with the switching elements inside the instrument.³

When the lawyer Sigmund Adam was told about the suspected PK occurrence, he joken with Annmarie that "The next thing you know there'll be pictures twirling on the walls."³

Early the next Monday morning, the suggestion seemed to seemed to take effect, as heavy oil paintings were observed to twirl on the walls. "Bender's team also witnessed this

Alan Vaughn, "Pollergeist investigations in Germany", Psychic, The Bolen Co., San Francisco, California, April 1970, pp. 12 & 13.

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was able to film on video tape the movements of one painting as it rotated through an arc of 120 degrees."⁴

Annemarie went to Dr. Bender's laboratory at Freiburg to be tested for ESP and PK. It is noteworthy that the girl only scored above chance "when her emotions rose to a high pitch during the course of Bender's psychiatric interviews."⁴

The "Bremen Case" involved a 15 year old boy, Heiner Schultz who, it was claimed by witnesses, could cause objects to move without touching them. At first the strange phenomena concerned flying dishes in a china shop. When witnesses realized that the phenomena only occurred when Heiner was in the shop, Dr. Bender was called in to investigate. To the amazement of Dr. Bender and his team of three men, the phenomena continued while the boy was under their observation. Later when the boy was apprenticed to electricians the phenomena took a bizarre twist, loosening sturdy cable hooks inserted into a concrete wall. When Dr. Bender set up a laboratory test it also showed positive results. The scientific team inserted their own hooks into a concrete

⁴IBID Psychic pp 13

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wall and after assuring themselves that they were secure, placed the boy at a distance of one meter from the wall and closely observed. After a few minutes they discovered the hooks were loose but no one had seen them becoming so. When the Bremen boy and the Rosenhein girl were psychologically examined their personality structures were found to be unstable. Both had little tolerance for frustration. In both the frustration caused a rapid build-up of tensions for which neither had any normal outlet. A more conformist reaction to the same stressful environment might be to develop an ulcer or high blood pressure.

Soviet scientists are well aware of the PK phenomena and have been conducting tests in a Leningrad Laboratory. The test subject is N. S. Kulagina, a woman who is reported to be able to move small objects at will. The laboratory belongs to Dr. G. A. Sergieiev (Dr. of technical sciences, cyberneticist, telecommunications expert and neurophysicist). Sergieiev is the inventor of the wireless EEG or Force Field Detector. The phenomena have been verified by several scientists including the world famous theoretical physicist, professor . B. Terletskii, who suggests that some unknown kind of energy is responsible for the phenomena. The physician

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who studied Mrs. Kulagina during one experiment stated that the pattern of her reactions during the experiment "reminds one of a stress alarm reaction"⁵, which tends to support Dr. Bender's findings.

Now let us consider the second question: How could this effect the SIGINT community?

The evidence suggests that the PK effect in times of stress and tragedy may be far more common than we suspect: The clock stopping at the time of death or accident, the picture falling apparently without cause when a son is shot down over North Vietnam and light bulbs blowing out with unusual frequency (only during times of high tension). Many of these minor incidents are quickly forgotten and usually reported to no one.

As with most large organizations, many Agency employees already display some of the Psychosomatic symptoms of stress: ulcers, high blood pressure, tics, etc. Many psychological experts tell us that unrelieved stress does not have to display itself in a particular symptom. Many different types

⁵Dr. Zdenek Rejdak, ESP in Eastern Europe and Russia, March 1970, p6. Dr. Rejdak is the Chief Czech Parapsychologist and personally tested Kulagina under stringent laboratory conditions.

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will do just fine. Most are interchangeable, with a given individual often displaying a variety of different symptoms during his lifetime, even blending some. It is interesting to note the prevalence among executives of the socially acceptable stress ("Success") symptoms of ulcer, high blood pressure and heart ailments.

The twirling pictures in the Rosenheim case indicate how symptoms may be altered merely by suggestion. With the increasing popularity and acceptability of ESP and PK, it is anticipated that PK symptoms will increase. If one accepts that such things are possible, it is certainly much more appealing to use your excess energy to destroy the source of your frustration: The computer, the telephone, the teletypewriter, than it is to destroy yourself. Just consider for a moment the temptation: One cannot be held responsible for such effects, such "getting back at the boss" would be very hard to differentiate from outages with other causes; the adventurous aspect is fascinating all by itself.

It would be appropriate at this point to ask our readers: Is there a lot of pressure and tension in your office? Do you also have a much higher outage rate or down time than

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comparable offices? Have you really isolated the cause of your malfunctions? Do these outages measurably degrade the efficiency of your operation? Perhaps it would be worthwhile to carefully compare the rate of accidents and outages of undetermined cause in our offices during times of stress and during more normal periods. Do the light bulbs in your house blow out more frequently when someone is under stress? You might keep a little graph of stress peaks. (The correspondence might surprise you.)

As PK becomes more widely publicized and the methods of causing it more accurately determined, is it beyond the realm of possibility that the Soviets will attempt to:

- Use the PK capability to disrupt communications equipment with a direct attack by a trained person (s).

Plan their world moves in such a manner that all major diplomatic or military thrusts are preceded by a prolonged period filled with stress producing activities designed not only to frustrate and confuse our people, but also to produce PK effects in sufficient quantity to measurably degrade the operations of our critical command and control machinery: telecommunication, cryptographic and computer hardware.

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Personally target people they know have a PK effect who are working in critical command and control communications. Subject such persons to the appropriate stress so that they will radiate at a sufficient intensity to disrupt delicate computer switching circuits.

Use talented psychics to project energy to cause electronic communications gear to malfunction.*

*That this is feasible has apparently been demonstrated by a psychic Mrs. Olga Worrall who cause effects in a cloud chamber experiment conducted by Dr. Robert N. Miller, Professor of Chemical Engineering at Georgia Institute of Technology and Dr. Philip B. Reinhart, head of the Physics Department at Agnes Scott College in Atlanta, Georgia. Mrs. Worrall caused the effect from 600 miles away.

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Appropriate Recommendations are:

Efforts be made to ascertain whether known psychic talent within the Soviet Bloc is presently associated with personalities known to be part of Soviet Bloc SIGINT (or other intelligence) activities.

Efforts be made, through existing DOD or other (see Appendix B) facilities where possible, to test the degree of vulnerability of U.S. classified communications and COMSEC equipments, devices and materials to the ESP threat. Such testing should consider both the threat of the individual talented and reliable psychic and groups of such individuals arrayed against a single target. Any conditions promoting or hindering the ESP performance should be carefully noted.

An NSA representative(s) be appointed to monitor any psychic tests performed on behalf of this agency to make certain that: NSA requirements are properly tested; the tests are scientifically established and carried out; and the tests are tailored to the psychic gift(s) of the participants.

All NSA requirements in this area be properly coordinated before any tests are begun.

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Chapter VIII

Defenses Against ESP

As Extra Sensory Perception does appear to pose a threat to U.S. Communication Security, it is of considerable concern to determine how defenses might be erected against such an attack. ESP is seen to be an effect of The empathetic bond. This has been firmly established in Soviets, as well as free world research. Kamansky, The Soviet, when transmitting to his receiver Nickolaev concentrated on being angry at him. Dr. Thelma Moss of UCLA uses emotionally charged films to stimulate feelings of threat in the transmitter. In the E. Douglas Dean experiments at Newark, the transmitter concentrated on people that Dean either greatly disliked or cared about.

Although no known defense could be called foolproof against a talented psychic, it is evident from years of research and experience that anything which degrades the intensity of the bond between the perceiver and the object or person of concern is a defense against ESP.

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As noted in Chapter VI, the test scenes declined when the two subjects began to dislike each other and become bored with the tests. For many years researchers have complained about the "decline factor" which as in most tests is caused by the tedium of doing the same thing over and over again in a boring manner. While mild doses of drugs and alcohol seem to enhance the ESP factor in some perceivers heavy drugs or alcohol has a destructive effect on ESP. Research has consistently indicated that a distracted calm or dreamy state is good for reception of ESP material but it is poor for transmission. A state of confusion in the subject especially when engendered in a skeptical environment has always been observed to hinder the PSI factor. Where negative ionization of a mild nature seem to enhance perception, positive ionized atmosphere inhibits and makes a person nervous and depressed. While intense concentration is good for transmitting telepathically, it is a poor condition for reception. From time immemorial it has been reported that enclosing oneself deep within the one-who-is* is a very strong protection against such attacks of perception.

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The above defenses are principally passive but there are reports from primitive people and more sophisticated psychics that active measures can be used to confuse the mind of another. The British report some curious cases of malignant ESP where natives in the Pacific Islands were targeted for death by the tribe and didn't know it at the time, but they still died with no apparent cause of death discovered. Wolf Messing in "Psychic Discoveries Behind the Iron Curtain" is reported to be able to "cloud" men's minds and even convince them that he is someone else. Reportedly the Soviets tested him early in the Second World War period. On one occasion Messing walked through Stalin's guards without being challenged. He says he made them think he was Beria, the chief of secret police. On another occasion he bemused a bank clerk into giving him a large sum of money. All apparent ESP defensive measures require careful scientific scrutiny to determine their degree of reality and useability.

*NOTE: The real absolute relationship, the one-life, as experienced by deep individuals and contemplative groups targeting the pure substance of reality. This is the Foundation entity - the primary existent.

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SUMMARY

Uncareful use of either offensive or defensive psychic powers is exceedingly dangerous. The Fanatical Hitler experience, where a society of criminal leadership thrust open an occult horror chamber which cost over 50 million dead; should be more than a casual reminder that opening the Pandora's box of deep human power can unlock more than beneficial effects, but the lid is lifted and will not be closed. We must proceed with caution and integrity. It is my conviction that only the whole man can successfully survive in this new world. This is the last frontier and the most challenging. Man needs all of his powers and experience to be equal to the task. He must bring his wisdom as well as his science, his emotions as well as his mind. And unless the man is firmly rooted in the foundation of the Spirit of Life, he will not survive this great adventure into the World of Being.

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