

PROPERTY FILE 93B012-07
SIBRAJAR

014131

938 General
LAWS OF DISPLACEMENT
BY
ANAND P. INAMDAR

LAWS OF DISPLACEMENT

BY

ANAND P. INAMDAR

GIBRALTAR MINES LIMITED

93B012(9w)
PROPERTY FILE

Prepared for presentation at the annual meeting of the NORTHERN BRANCH
OF C.I.M.M.

7th and 8th MAY, 1976

LAWS OF DISPLACEMENT

Basic elements and philosophies of success in any field, especially in Technological fields, are formalized in these laws. Any major turning point in history will aptly demonstrate the true nature of success or failure when related to one or more Laws of Displacement.

A conscious effort has been made, to generalize the concepts accepting only the essential elements, and to present these in a positive philosophical lexicon. Reversing the Laws in most cases will guarantee failure. The Laws are applicable to all forms of creative human endeavour - be it an individual, industry or government - and in almost all cases will define the causes of success or failure.

ACKNOWLEDGEMENTS:

Author gratefully acknowledges the encouragement of Gibraltar's enlightened management, to prepare and present this paper, although the concepts do not necessarily indicate Gibraltar Management's philosophy. Additionally, without the significant and enthusiastic contribution from many of my colleagues, the author would not have had the courage to present this paper before such a critical audience.

LAWS OF DISPLACEMENT

(A BLUE PRINT FOR SUCCESSFUL TECHNOCRACY)

- 1st Law: Unrealistic Placement is Displaced Realistically
- 2nd Law: Experience and Logic Displaces Liberty
- 3rd Law: Quality Displaces Equality
- 4th Law: Efficient ELITISM Displaces Fraternity
- 5th Law: Correct Causality Displaces Symptomania
- 6th Law: Perfection of Means Tend to Displace Objectives
- 7th Law: Intelligent Organic Response Displaces Unknown Hostile Environment
- 8th Law: Dynamic Technology Displaces Doctrinaire Inertia
- 9th Law: Sincerity Displaces Human Complexity

LAWS OF DISPLACEMENT

PREAMBLE

SCIENCE encompasses most fields of today's complex technological society, and natural sciences in particular have a major role to play in the successful development of such societies. Out of the three basic natural science concerns V.I.Z: AIR, WATER AND EARTH - MINERAL SCIENCES i.e. GEOLOGY, MINING AND METALLURGY together form one of the crucial base elements of successful development and practice of earth sciences, and soon will form a major part of marine sciences as well.

Our lives are increasingly being governed by a variety of primary and secondary technologies which are leading us through progress in each field to the eventual formation of technocracy, which will displace all other systems. We as today's technologists will be tomorrows technocrats, and as such, must make special efforts to thoroughly grasp and practice the basic laws that govern all aspects of human endeavour in order to have an orderly development of a successful pragmatic technocracy. With a view to avoid the fumbings of today's major national politicians, leaders and rulers, the elements of basic laws that govern all endeavour have been formalized in the foregoing "Laws of Displacement". In technological fields we practice these laws constantly although may not be aware of their inevitable existance and effects.

The concept arose out of investigation into the history and development of socities and nations. In a nutshell it appeared that animate behaviours and inanimate uses are continuously being displaced by relatively more efficient systems. The most appropriate terminology, for the governing laws then could only be, "The Laws of Displacement".

1st Law:

"Unrealistic Placement is Displaced Realistically"

This is the conceptual element of all the laws and states the displacement in general terms.

A routine example demonstrates this phenomenon vividly. Take a fresh technical graduate, say a metallurgist, who in his infinite wisdom soon discovers that no one takes his astute intelligent observations and instant radical changes that he wants to incorporate, very seriously. A little later after some corrective practical frustrations he begins to wonder if his professors at university actually knew about the operating realities of subjects on which they were supposed to be authorities. A year or so down the line he starts to find that in many areas his unrealistic knowledge is being constantly displaced by practical limits of efficiency, costs and realistic operations. This person has then become the natural victim of the 1st Law.

In essence, ivory towers may make up for dreams but usually not for operating floor realities. This is neither meant to underestimate nor meant to deride elegant advantages of formal and advanced learning. Our only concern is that these faculties of higher learning, hopefully become more pragmatic to avoid unnecessary disappointments in their disciples.

Whenever an unreal postulate has been established, advanced or practiced, it sooner or later will be displaced realistically. In fact, technological progress through centuries would have been impossible without the natural action of the 1st Law.

The Velikovsky phenomenon is the most illuminating example of this Law in the very realistic displacement taking place in to-day's postulates in astronomy.

2nd Law:

"Experience and Logic Displaces Liberty"

As evident in all fields - especially technological fields, every logical development and resultant experience reduces our freedom in that direction and when a naturally logical system will eventually be established there will be almost no liberty left.

Events are relative to circumstances and circumstances or actions and reactions follow logic of experience. Whether we are always capable of understanding the sequence or not is irrelevant. In the development of brain functions, from an instinct of amoeba to the intelligence of homo-sapiens, there must have been a naturally selective empirical system at work. At each stage the freedom of choices must have become limited. Barring catastrophes only one route must be the correct path and all the liberty in other routes only went on to paths of over specialization required to adapt and or to overcome a tactical or temporarily adverse obstacle in the life of the species, which then became atrophied for all practical purposes. In fact a sub-statement of 2nd Law could be stated as "overspecialization leads to petrification" i.e., development slows to a fossilized living, or species that did not intellectually change with the changing hostile environment perished or became dormant in a petrified life style. This is also true for societies and nations throughout our history.

Once we discover or develop a dynamic logical system to survive the hostile unknown, we progress to the next limit of our choice of freedom. Liberty of thought and action tempered by responsibility is a must, in search of the one correct solution for improvement but as we progress down the road liberty is progressively displaced by experience and logic.

3rd Law:

"Quality Displaces Equality"

The prolific literature on a variety of subjects demonstrates that only a very few stand out and survive in any given field. From sexual freedoms to nuclear physics nothing remains that cannot stand the acid test of time.

We are all aware that due to naive socialistic and incompetent democratic pressures, initially we accept all graduates, say metallurgists, as equals, however only the person with quality stands out amongst the rest. Technologists stand or disappear on the conceptual quality and their application to operating realities. We know usually governments do not - but hopefully technology based corporations select this criteria for higher management candidates.

As long as the quality of judgment is present it will supercede equality. In the lessons of historical sequences there is always the quality of decision that has counted most, survived the rest, and made the crucial turning points in all spheres. From fields of politics, economics, social progress, natural and martial sciences there is one historical lesson that is unmistakable V.I.Z: The superior quality of thought, study and pragmatic judgment of leaders has always displaced the equality of their contemporary masses. Conversely, whenever the leader or group has lost the elements of quality then they became equal to their masses with an inevitable resultant stagnancy.

This is not meant to preach the merits of dictatorship, but rather to accomodate the most realistic definition of democracy:

"All are equal, but some are more equal than others."

4th Law:

"Efficient ELITISM Displaces FRATERNITY"

Elitism is in essence the human element of quality. Some demote it by the offensive term "aggressiveness" - but this does not do justice to the individual. Essentially elitism can only mean the inborn confidence of an individual in his mental and or physical capabilities developed through experience and logic, to overcome the obstacles in living a successful and exciting life. No doubt there are many phony demonstrations of such confidence and that is why the qualification "efficient" is critical. This denotes that there is a genuine and competent confidence in judgment and execution, well balanced through ones own logically evaluated thought and experience. An inborn competence to improve capabilities through self-criticism of successes or failures is inherent in this concept.

A person who has consciously developed his faculties on this criteria automatically starts to rise on the elitist ladder. Others develop confidence in his capabilities, judgment and concepts in related field. Gradually this individual develops into a natural leader in his chosen field. Displacement of fraternity is accepted without having to even identify it.

Without developing the inherent organic quality of "efficient elitism" the Olympic competitor would become a nonentity in the fraternity. Without the basic elitist concept not only outstanding but even moderately significant achievements would not be possible.

5th Law:

"Correct Causality Displaces Symptomana"

Causality means sequence of causes generating a variety of effects or symptoms. Usually there is a great confusion over causes and symptoms. We often see a variety of maniacs energetically assaulting the symptoms. Causality is lost in the confusion of these symptomaniacs, and

and is clearly seen in the popular battle over inflation. We do not seem to have one person or a group or a government that has identified the causes as against the symptoms. Remedies are being prescribed and unfortunately being applied, in many cases indiscriminately, by learned gentlemen who should know better. Perhaps they are afraid to pronounce the unpalatable truths. However, without correct causality remedy cannot even be thought of, whether palatable or not.

Even in simple situations there is usually a great temptation to cure symptoms by applying purely tactical solutions. A very popular sport with politicians of all stripes is to often apply politically expedient solutions, which may alleviate symptoms but will neither identify nor cure basic causes.

Revolutions, powerful nations and industrial empires have paid extreme penalties for ignoring this Law.

6th Law:

"Perfection of Means Tends to Displace Objectives"

This law is warning us that we should not get carried away in sophistication of design. The clutter of defunct automatic systems, later found superfluous, tend to displace objectives. With the advance in critical criteria in complex technological systems, perfection of means could be justified, however, a point of diminishing returns must be established lest the economic objective be lost.

In a large number of cases simple solutions work best and the merits of perfection should be carefully evaluated. We are often lured into believing that we should get, computerized or on-stream analytical systems to keep up with progressive trends. A mature analysis to-date has shown us at Gibraltar that an on-stream analysis and automated reagent feeding system is not warranted on cost saving basis, instead we are going

to a simple manually controlled multiple feeder. The difference in costs is in the range of \$1,500 against + \$100,000 for very close to identical savings. On the other hand in another area, a much more sophisticated reagent feeder system became necessary, principally due to constantly variable requirements, excessive wastage and mounting costs. Application of the rationale of diminishing returns for perfection of means is a prime necessity in attaining objectives efficiently and elegantly.

Let us not be the naive victims of the classical example:

"Operation successful but the patient died".

7th Law:

"Intelligent Organic Response Displaces Unknown Hostile Environment"

Survival of species and especially homo-sapiens throughout history has depended on the intelligent organic response of individuals or groups to unknown, hostile and at times catastrophic situations.

To-day computers are very useful mechanical slaves but we should take utmost care lest they start to dictate our responses. A large quantity of poor and possibly irrelevant data can be made sensible through the use of computers and we have all been at times the victims of a secondary Law of Displacement V.I.Z: "Tons of poor data displaces grains of hidden truth". McNamara and the "Whiz Kids" with the predictions of their sophisticated Pentagon computers were winning the Vietnam war in 1966 and 1967, while the North Vietnamese were relying mostly on intelligent organic responses. We all know the sequel! Many of us, at times depend on the computers to guide our responses, not realizing that the mechanical rationale of this sophisticated slave is principally based on a rather constrictive channel. All around us we see a variety of poor predictions in numerous fields, based on so called statistics and computer logic and basically the human behind the computer is at fault. Perhaps you

will remember the famous dictum of war era: "It's not the gun that fights but the man behind it".

8th Law:

"Dynamic Technology Displaces Doctrinaire Inertia"

The doctrinaire approach to a system, be it social, political religious or industrial, creates an inertia which usually leads to petrification of societies and systems. A living organism must keep on striving for more efficient functional systems and without the dynamic element in technology our complex societies will become defunct.

Keeping an open mind on a variety of options is crucially important in technology. What is not logical today may be perfectly feasible to-morrow, because logic is dynamic and relative to the times in which we function.

A questing mind is a pre-requisite to elegant dynamic technology and is the most efficient antidote to doctrinaire attitudes which tend to debilitate societies as well as technical groups, by generating inertia.

9th Law:

"Sincerity Displaces Human Complexity"

Without the introduction of this second organic factor when dealing with people around us, we cannot build an efficient team to tackle complex technological ventures necessary for our survival.

Working together as a team has always been one of the basic necessities to successfully attain objectives and enjoy our work. To generate a participating and willing atmosphere, in order to bring out the best in available creative talents, we as technologists must recognize that only sincere appreciation and or criticism will obviate personal complexities, leaving only the objective truth.

None of us is infallible and sincerity, in accepting our own errors of judgment, usually goes farthest in promoting a healthy environment for our pursuits. Only in such an atmosphere will technocrats flourish and lead to the efficient development of technocracy.

EPILOGUE

In closing I wish to take the opportunity to thank the organizers of the annual meeting of the Northern Branch of C.I.M.M. who have allowed me to present this paper to a captive audience. I am sure you would not otherwise have had the patience to listen to this drivel and not displace me!

I hope this condensed presentation will create some soul-searching in the uninitiated and regenerate the enthusiasm in the initiated.

The universe no doubt has similarly unfolded before and has seen it all in one form or another however, if only one last provocative and arguable thought remains, all my efforts will be worth while:

"There are neither sacred cows nor virgins in a dynamic technocracy".