



THE BLACK VAULT

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To: Chief, Technical Branch O/S.O.

A/B, 5, 342/4

FROM: CSI/Medicine

A

SUBJECT: Report on Special Trip authorized by Memo of 13 Oct., 1954.

As directed, at least 10 professional contacts were made during the time of 28-29 October 1954. Every contact made, by great good fortune, through agency preparation and whole-hearted cooperation of all concerned, had most gratifying results. One of the desired substances collected has a commercial value of over 500 dollars, the other a production value of over 1000 dollars. Others are rare items, commercially not obtainable, all secured without expense to this agency. In addition, valuable data and files were collected, as well as specimens from outstanding collections for further study and guidance. The personal contacts with field agents, executives, and scientists, old friends and acquaintances, some covertly, laid a promising foundation for further joint action.

1. Contact with [redacted] through his with the officers and staff members of [redacted]

A. - Dolitrons

[redacted] has recently proven the value of dolitrons, giving good results in over 20 cases. He gives dolitrons a definite place in the new era of anesthesiology, designating it as analgesic rather than as an anesthetic, as a border-line agent, since it keeps the patient at least partially conscious. It makes the entire system insensible to pain, in contrast to a local anesthetic, leaving the patient able to obey instructions from the doctor and retaining the ability to use the muscles. While it causes forgetfulness the blood circulation rate is not greatly slowed, oral surgery is possible with less bleeding and depression as well as deep anesthesia are only obtained after very large doses. Dolitrons has been used successfully alone or in combination with other drugs, such as curare, succinyl chloride, cocaine, nitrous oxide and ether, (see detailed data on table attached) in dental, eye, ear, nose and throat surgery, and in bronchoscopy, causing in contrast to pentothal no spasms. It has given extended and prolonged relief from pain in advanced cancer and in hemorrhoid removal. Its use in childbirth is in progress. For detailed clinical results see Table I attached.

Methods of Administration

1. Oral Use: Extended experiments are planned after completion in the laboratories of studies to improve the physical properties of dolitrons such as suspension or solution, removal of odor and adjustment to the desirable pH.

2. Intramuscular Injection: The acute stinging pain, lasting about 2 minutes, may be overcome by the simultaneous or preceding injection of a local anesthetic such as procaine. The raising of the arm above the horizontal level, in case injections are made in the arm, are also recommended to forestall pain and temporary swelling.

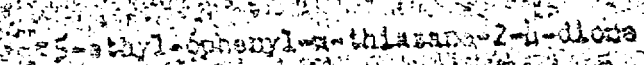
3. Intravenous Injection: The use of the greatly improved lyophilized dolitron preparation, white, odorless powder, staying in 2% aqueous solution for about 1-2 hours, at a pH of 4.5, given intermittently by vein, as necessary, is recommended. Fortunately this lyophilized preparation is also now available for the experiments planned by the agency, through the cooperation of [redacted] and Mr. [redacted].

Pharmacological and Toxicological Studies

The value of dolitron as an intravenous anesthetic is also indicated in animal experiments. According to staff members of the [redacted], the acute LD₅₀ for the sodium salt of dolitron is approximately 3 times that of thiopental. While minimal hypnotic doses for these 2 anesthetics are similar, the duration of hypnosis is more than doubled, being 55 minutes for dolitron and only 20 minutes for thiopental in single 60-100 mg doses. No cumulation was observed with repeated intravenous dosing at regular frequent intervals in rabbits; using dolitron; and in dogs this cumulation was minimal. In contrast, using thiopental with an identical procedure, the duration of hypnosis in rabbits and dogs becomes longer with each succeeding dose. Signs of toxicity, as measured by hematology, body weight and gross and microscopic pathology, did not occur in dogs which were maintained in deep surgical anesthesia for two 90-minute periods. There was no appreciable change in blood pressure in dogs receiving repeated rapid intravenous injections of dolitron, until doses were given which were large enough to cause respiratory paralysis.

Chemistry

Dolitron is the registered name for the chemical compound:



B. Seaming Leather Agent: Xenon

For purposes of very fast effects of anesthetization, without too great a risk of fatality resulting from its use, [redacted] suggests the consideration of

the inert gas xenon. Upon his advice we are contacting [redacted] for further information. Of interest in this connection is that according to the Russian R. I. M. Madorskaya, publishing his results in the Soviet Physiological Journal, xenon, even at normal atmospheric pressure, has a narcotic effect 7 times stronger than that of krypton. Xenon is a heavy, colorless gaseous element, and represents one of the inert gases, occurring both in the atmosphere - part in 170 millions by volume - and in gases from hot springs. Originally obtained by fractionated distillation of crude argon from the air, it can be condensed to a liquid, boiling at 109-109.2 C., and to a solid, melting at 111.5 (or at 116° C., according to Y. Ministry).

C. Stress and Strain Research: Meratran

[redacted] have also developed a new compound, alpha-(2-piperidyl)benzhydrol hydrochloride for use in narcolepsy, in emotional fatigue and depression, amphetamine-like in action, but according to claims, not as toxic nor habit-forming, causing little or no insomnia, and no rebound let-down. Through the cooperation of [redacted] this substance is available to the agency in ample amount (without cost to us) for testing. The company expects to extend its work of stress research into aging and diseases of old age in its new "laboratory of basic medical science".

D. Personnel of [redacted]

The executive and staff members contacted were [redacted]

[redacted] in whom unit dollitrons was developed. Acceptable to SO as [redacted] of these gentlemen, I believe, would be glad to cooperate with this agency.

E. Psychotherapist

[redacted] as a very capable contact for psychotherapeutic and psychiatric problems.

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...with staff members ...
...the section chief of solvent preparations, the
...problems were discussed:

1. The final total synthesis of LS (Lysergic acid) and of Ergonovine, this
had been accomplished and was subsequently published (see
copy attached). The synthesis of LS resulting from years of group research, requires
such a complex procedure that kilo and larger stockpile quantities cannot be expected
for the present. An attempt is now contemplated to use biosynthetic methods for
the possible simplification of the process in the laboratory. The synthesis
of ergonovine, a useful agent in facilitating child birth and treatment of migraine,
was also made possible by the conversion of the di-lysergic acid to di-isolysergic
acid hydroxide, which is converted to ergonovine, which last step had previously
been patented by ... (See attached copy attached).

Many ergonovine derivatives have been prepared in the bio-chemistry
department headed by ... and are available to us for further study.
One of these, the lysergic acid morpholine, is being studied by ... who offered to inform us when
results are available.

2. Corn Sulf (Vatilloge Noylis). The use of corn sulf, recognized in
Mexico as a medicine, and used to overcome apprehension and fear in paratroopers
behind the iron curtain, and in China, was discussed with the suggestion that
further data concerning its chemistry might be made available to this agency. The
presence of ergot-like alkaloids has been reported in Chilean literature, and more
recently studied in this field are carried on in the ... area now further info is
expected through cooperation with ...

3. Clitocybe illudens: The presence of ergot-like alkaloids in this Florida
mushroom reported in recent literature has also been discussed. This report
has been ... through ... and the
... have expressed interest in securing
specimens for further study and requested our help in this cooperative research.

4. Fast acting sedative with anesthetic properties. No such substance,
faster acting than scopolamine with anesthetic and hypnotic properties, was suggested.
However, the development of selection of such special substances was discussed,
involving possibly barbiturates, which might be volatile and readily volatilized.
They might then be dispersed or inhaled through their vapor and effective through
their vapor. There was a definite response to the possible use of drugged
cigarettes, suggested by ... and adopted in the use of asthma
cigarettes, containing the leaf of *Datura stramonium*, and in the administration
of "stroll" (tetrahydrocannabinol). This latter use had been reported by ...

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as a Secret document. In the patrol cigarettes the preparation of its alcohol solution was injected into the core at one or both ends of the cigarette was sufficient, the effect was noted within 15-20 minutes.

4. Non-habit forming Sedative. The preparation and distribution of a new and sedative and hypnotic, comparatively non toxic in acute and chronic use, and apparently non habit forming, is now under way. It is either identical with or similar to the German "dolocent" (ethyl-cyclohexyl-allophanate), developed in West Germany by Chemische Werke, Rheinbraun (of Grunthal). The description of new sedatives, unsaturated alcohols (methylpentinol, methylbutinol, methylpentanol, ethylcyclohexanol) and their esters is reported in "Arzneimittel Forschung", Vol. 4, 477-479, 1954.

5. Co-operative research. Since the management has been ever willing to cooperate with the Government, never accepting compensation and in fact offering to contribute a large sum to Government research, no difficulty was envisioned by the staff members consulted in initiating special research projects along the lines suggested. It was suggested to make the contact through

6. Personnel. The personnel of the company secured for investigation purposes of this agency included... and possibly its... other staff... alerted for top secret

and others. In addition there are members of the... employed, one of them... background of these members is... which

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... was corrected in a final section with the
 ... other cases
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 ... were helpful, but their response
 ... and continued such treatment, claiming that by judicious
 ... cases up to eight years old had been cured. He
 ... even change of position, in any
 ... undertaken. While formerly engaged in such
 ... which caused him to suspect the lack of oxygen
 ... of the effect of many chemicals on the mind, he
 ... in the solution of theoretical problems. The treatment
 ... private patients precludes extensive
 ... a copy
 ... attached.
 ... comes
 ... in the field, and high
 ... in his opinion.

The following problems were discussed:

1. Seeking death agent, causing acute anesthesia, without rapid death. He questioned the usefulness of cyanide, suggested by especially its physical properties as a gas and the difficulty of handling for the purpose in mind. He suggested among the possibilities of liquid becoming solid at atmospheric pressures. However, he admitted neither boiling at 70°C at atmospheric pressures, including trichloroethanol, trichloroethanol, trichloroethylene, and actually been tested for the purpose as far as he knew and a solution would be a better project.

2. Seeking poison: The neurotoxic properties of nutria (root of a species of grass) have been pointed out. He suggested the possible use of a substance causing depression, respiratory paralysis and stupor. He suggested the use of a grass in tropical beverages (e.g., cassava, etc.) narcotic properties should be further studied. He suggested the effect of a substance on the central nervous system.

3. Animal Subjects: He has been interested for a long time in a small butterfly, *Glyptotendipes*, which plants he grows in his laboratory. He does not consider a dangerous narcotic. He is very interested in the fact that Mexican Indians use the native cactus for mental effects other than as hallucinants. He would be interested in studying such effects, if a project could be agreed upon.

4. Monkey Isolation Studies: He follows his captive collection and behavior of apes in his colony of over 100 rhesus monkeys. These are kept from certain diseases at \$5-10 dollars a piece, after they are climate-conditioned in S. Carolina and freed from intestinal disease. He is not breeding them, but would be greatly interested in including gibbons and chimpanzees among his animal colony.

5. Monkey Behavior Study: He has observed the behavior patterns through daily observation, believed that in addition to the emotional symptoms of anger, jealousy, fear, anxiety and worry, the evidence of hallucination may be detected in monkeys, after administration of hallucinants. The work with more intelligent and gentle apes, in contrast to the vicious rhesus monkeys, such as the gibbons from Thailand, would therefore be a very attractive project, promising a valuable addition to our knowledge of testing.

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The following problems were discussed: although the drug has been

The search for unity, selected by the company, is a special field of research and besides was discussed after briefing with reports of streptomycin and

Formalin, chloroquine type, a phenothiazine derivative, developed by Dr. J. B. Flourens, and others in France. This has recently been introduced into this country as a new method of agent with profound pharmacological activity, it is supposed for the treatment of cerebral neoplasms, it is effective in the control of nausea and vomiting due to various causes, it has been used in the treatment of various infectious diseases and prolonged in the treatment of cancer, (hyperemesis) of pregnant women and in the treatment of epilepsy, and acute alcoholism. A physician (Dr. J. B. Flourens) and others, according to the French Journal of Pharmacy (May 1954) found that chloroquine is highly effective in controlling the acute and chronic, abnormal, and irregularities of the heart, and in the treatment of various types of arrhythmias.

There are many other drugs which are being developed which are being used to take the required precautions and advice. The drug is currently being used in the treatment of various types of arrhythmias.

Some of the other special agents of the liver require to be used in order to prevent damage to the development of certain types of liver disease, and to prevent the development of certain types of liver disease.

There are many other special agents of the liver require to be used in order to prevent damage to the development of certain types of liver disease, and to prevent the development of certain types of liver disease.

It is known to be particularly since 1914, had been secured, and he had also been director, for a lifetime, of the Philippine Bureau of Science, many years in exploration and collection in various parts of the world, including Malaya, Java, the Philippines, where he is known in scientific circles. His guidance was very helpful and his continued cooperation, if permitted, may be expected. Through his help the extensive bacterium collection, now under the direction of Dr. J. B. Flourens, was made.

...the following information is being furnished to you for your information and use in the event you are contacted by any of the persons named herein.

The following information was obtained from the files of the Internal Security - Communist Division, New York Office, and is being furnished to you for your information and use in the event you are contacted by any of the persons named herein.

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The following specimens were identified as follows:
and other plant material.

The bean family and other genera of the leguminosae were discussed, including *Phaseolus* species, including the exciting "cacha" (mung), prepared from the seeds; these contain the alkaloid, the psychotropic "kufotenin", present in about 10% and also found in the seeds of *Phaseolus* (mung) about 10% of another species of *Phaseolus* but not identified. The collection of the seed of the bean, either from the seed bank, in order to obtain a larger amount of seed, and through the limited seed through dispersion of the result of the seed bank, and through the limited seed through dispersion of the result of the seed bank, and through the limited seed through dispersion of the result of the seed bank.

The following is a list of the plants in the garden of the...
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The following information was obtained from the records of the [illegible] and is reported in detail as follows: [illegible] carried out.

A

The following information was obtained from the records of the [illegible] and is reported in detail as follows: [illegible]

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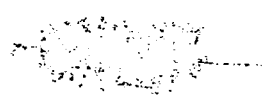
C

The following information was obtained from the records of the [illegible] and is reported in detail as follows: [illegible]

S/E

A

The following information was obtained from the records of the [illegible] and is reported in detail as follows: [illegible]



A/R, E, 344/0

12 August 1951

I am sending you this internal memorandum since my time is so limited before I have to go to the States though I would dash off a few notes with you for your consideration and the record.

1. I am attaching herewith to this memorandum a copy of a letter which I wrote to you on August 1st. I am sure you will note I wrote with a certain amount of haste and I am sure this letter is not as good as it could be. I am sure you will be able to pick this letter up with him and refresh his memory on these lines. He may be a source of supply for Gamma. You can use the letter in any way you wish. I would like to have it sent when you finish with it. I am sure you will sign the second letter to the subject of a "Black List" at the present time, I believe, by Security and should not be approached or contacted in any way. Of interest also is the fact that you are not to be mentioned in this matter.

2. Please do what you can to get together all the material available. Particularly our interest is in the details of his experimental work that he is now conducting; his results; technical notes; opinions, etc., etc. However, you should not be told that we are interested in his work.

3. This is again to remind you that in the near future you may be called upon to procure reasonably substantial amounts of Mescaline, LSD-25 and tetra-hydro-cannabinol. I do not know what amounts will be required but that information will probably come through [redacted] and also [redacted] will probably handle any necessary money involved in the transactions. [redacted] of course, is aware of this and aware of your ability as a procurer of rare items. I do not again have to remind you that this type of transaction should be very deeply concealed since our interest in this must not be shown.

4. Have you had the opportunity to secure any information on that drug called Bellitron that was apparently successfully used at [redacted] Special Services [redacted] feels that that chemical would have particular value along these lines and we should like to find out all details possible and also how can we obtain the chemical itself?

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