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A/B 5 342/4

TO: Chair, Technical Branch O/S.O.

FROM: CSI/Medicine

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 18-29 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 \$100 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.

I. Contact with

B through his wife with the officers and staff members of

A. - Dolitrome

has recently proven the value of dolitrome, giving from results in over 20 cases. He gives dolitrome a definite place in the new era of anaesthesiology, designating it as analgesic rather than as an anaesthetic, as a border-line agent, since it keeps the patient at least partially conscious. It makes the entire system insensitile to pain, in contrast to a local anaesthetic, 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 anaesthesia are only obtained after very large doses. Dolitrome has been used successfully alone or in combination with other drugs, such as curare, succinyl chlorides, 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

I. Oral Use: Extended experiments are planned after completion in the laboratories of studies to improve the physical properties of dolitrome 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 2½ grams solution for about 3-4 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 53 minutes for Dolitron and only 20 minutes for thiopental in single 50% LD₅₀ 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:

5-ethyl-phenyl- α -thiazane-2- β -dioxo

B. Smoking Death 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 krypton. Upon his advice we are contacting Dr. V. N. Kudryavtsev for further information. Of interest in this connection is that according to the Russian R. I. N. Kadorskaya, 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 103-109.1°C., and to a solid (melting at 111.5° or at 149° C., according to V. M. Sazonov).

C. Stress and Strain Research: Maratrain

Merck, Sharp & Dohme, 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 liable nor habit-forming, causing little or no insomnia, and no rebound. Through the cooperation of the agency, this substance is available to the agency in ample amount (without cost) for testing. The company expects to extend its work of stress research, inter-aging and diseases of old age in its new "laboratory of basic medical science".

Personal, etc.

executives and staff members contacted were

in record-unit dolitrons was devolved. Acceptable to SO as a group of these gentlemen, I believe, would be glad to cooperate with this agency.

S. Psychotherapy of

Biggest problem is lack of a very capable contact for psychotherapeutic and psychiatric problems.

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In the conference with Dr. [unclear] the section chief of solvent preparations, the following problems were discussed:

1. The final total synthesis of LS (Lysergic acid) and of Ergonovine. This had first 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 from the present. An attempt is now contemplated to use bio-synthetic methods for the possible simplification of the process in the Bureau laboratories. The synthesis of ergonovine, useful agent in facilitating child birth and treatment of migraine, could also now be possible by the conversion of the dl-lysergic acid to dl-isolysergic acid hydrazide, followed by its conversion to ergonovine, which last step had previously been patented by the Bureau (see antestat copy attached). Very large quantities have been prepared in the bio-chemistry department headed by Dr. [unclear] and are available to us for further study.

2. Corn Sat (Vatlago Novis). The use of corn sat, 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 Chinese literature, and more recently studies in this field are carried on in the Bureau laboratories. Work is now further into this direction.

3. Clitocybe illudens. The presence of ergot-like alkaloids in this Florida mushroom reported in patent literature has also discussed. This report has been submitted to the Bureau through Dr. [unclear] and the Bureau has expressed interest in securing samples for further study and requested our help in this cooperative research.

4. 5,5 Fast acting sedative with anesthetic properties. No such substance, after mixing their action with anesthetic and hypnotic properties, was suggested. However, the development of selection of such special substances was discussed, including possibly barbiturates, which might be volatile and readily volatilized, may night than 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 [unclear] and adopted in the use of asthma cigarettes, containing the leaf of Datura stramonium, and in the administration of tetraol (tetrahydrocannabinol). This latter use had been reported by [unclear]

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In main topics discussed with Dr. Sorenson were the synthesis of tetrahydrocannabinol, also called "THC," and the synthesis of delta-9-tetrahydrocannabinol.

Dr. Sorenson had no samples on hand, but suggested that one might be available by a later source. He had given some of the substances to his students for tests who, however, reported conflicting results. For example, he suggested would be the reading of the extensive literature review of the University of California, Berkeley, and the recent work of Dr. R. C. Williams, Associate Professor of Chemistry at Princeton University on the synthesis of cannabinoids and related compounds.

Dr. Sorenson stated that he would be happy to forward a copy of the tetrahydrocannabinol synthesis paper to the Bureau. Finally, Dr. Sorenson gave a complete list of his publications on the subject which will be turned over upon request. The list includes the following:

1. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 75, 6574 (1953).
 2. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 76, 5522 (1954).
 3. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 77, 1032 (1955).
 4. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 78, 1032 (1956).
 5. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 79, 1032 (1957).
 6. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 80, 1032 (1958).
 7. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 81, 1032 (1959).
 8. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 82, 1032 (1960).
 9. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 83, 1032 (1961).
 10. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 84, 1032 (1962).
 11. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 85, 1032 (1963).
 12. "Synthesis of Tetrahydrocannabinol," J. Am. Chem. Soc., 86, 1032 (1964).

Dr. Sorenson discussed his work and interests and showed the two laboratories of his pharmaceutical and pharmacological research and central. Through his wide contact with outstanding workers in the field of medicine in this country, and his familiarity with our mode and aims, he proposed, upon request, a number of promising contacts such as:

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...also connected in a "non-specific" manner with other known

...the ventilation apparatus used for the cure of such

...of neural disorders.

...found that prazosin was helpful. This far there is no
...use, spread and continued shock treatment, showing that by various
...maligned treatment cases up to eight years old had been cured. He
...reported his maladjusted cooperation; even change of position, in ab-
...sence of oxygen to be undertaken. While formerly engaged in such
...and unusual work, which causing him to suspect the lack of oxygen
...and the deleterious effect of many chemicals on the mind, he is
...now more enter in the solution of theoretical problems. His treatment
...private patient's precludes attacking such conditions.

...a copy of the report of the author is attached.

...suggested the author to be a leading man in his field, and highly
...respected to me in his opinion.

Content:

The following problems were discussed:

1. Anesthetic agent, causing acute anesthesia, without rapid death.
2. Anesthetized the usefulness of such, suggested by especially
a. Bisulfide's physical properties as a gas and the difficulty of handling it
in its liquid form. b. The suggestion among the possibilities of
the use of methyl chloroform, a liquid becoming solid at
-10° C. and boiling at 74.2° atmospheric pressure. However, he admitted neither
of these substances had been tested for the purpose he has in mind.
c. It is not known if bisulfide has been tested for the purpose he has in mind and a selection
should be an important project.

2. Triethyl borane: The narcotic properties of butane (next of anesthetic
agents) have been pointed out. He suggested the problem
of a volatile substance causing depression, respiratory paralysis and stupor.
Since anesthetics find their way into beverages (e.g., beer, etc.)
narcotic properties should be further studied. He advised, the effectiveness
could then be determined.

3. Artificial buttons: Dr. H. H. Kline, has been interested for a long time in
several buttons from Thailandia Veritatis, which plants he grows in his laboratory
and hobby, and nosebleeds which he does not consider a dangerous narcotic.
He admits having drugs. He is aware that Mexican Indians use the native cactus
as a hallucinogenic plant other than an hallucinogenic, and could be interested
in pursuing such studies, if a project could be agreed upon.

4. Monkey Collection: Dr. H. H. Kline follows his morphine addiction and
habitual appearance in his colony of over 100 rhesus monkeys. These are brought
from certain dealers 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 could be greatly interested in including gibbons and chimpanzees among
his animal colony.

5. Monkey Behavior Study: Dr. Kline, having observed the behavior
patterns through daily observation, believes that in addition to the emotional
symptoms of anger, jealousy, fear, anxiety and worry, the evidence of halluci-
nation 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

psychological agents' in Thailand. This exploratory guide would be prepared and
published and carried out with a bred strain of standard hot gibbons, which
would be much interested in this phase as well. My assistance in obtaining
young gibbons, for breeding and breeding directly from Thailand through close
acquaintance with key personnel in the Thai port, sources and direction may
be acceptable to the agency and the state department. I will be willing to
travel to Thailand at my own expense, and to pay my expenses while there.
Exchange of potent agents can be arranged and released from his stock or
manufacturing without charge; a substantial sum of possession of about 5 grams
worth in the open market of 37 dollars a gram, requesting in turn only a small
amount (about 100 mg) of gibbons for exploratory testing.

and the following year he was appointed to the faculty of the University of Michigan. He remained there until 1905, when he accepted a call to the chair of zoology at the University of Illinois. He remained there until his retirement in 1937.

In addition to the above, the agent may receive a security clearance for 14 days, which may be extended, if so desired, free of charge, for a period of 6 months, and additional responsibilities will automatically be assumed by the agent, and the agent will be entitled to consideration and approval of his services, for further detailed consideration and approval of his application for assignment to the obtain security clearance for 14 days.

• 38

of the following problems very closely with which he has been 3/3
concerned.

The search for safety, selected by the Agency, as a special field of research and activities was followed along with its practical accomplishment, and further steps were taken to develop a more effective method of protection.

Stomach lining (gastric type), a phenothiazine derivative, developed by Arnesen, Paulsen, De Staudt, and others in Germany. This has recently been introduced into this country as a new therapeutic agent with promising pharmacological activity. It apparently interferes with the function of certain membrane receptors, and its effectiveness seems to depend upon training and verified experience. It has been used in a great variety of conditions, particularly in malignant and pre-malignant processes, and appears (according to a number of sources) to give promise of great value in the treatment of malignant disease. Dr. W. H. and Dr. R. C. Arnesen, in their paper (J. Am. Med. Assn., May 27, 1944) found that therapy with Stomach lining is successful in the acute mental and physical alterations associated with malignant disease, and they state that it can be used effectively in the treatment of malignant disease.

There is nothing so pleasant as to have a good friend and colleague at hand, and the acquisition of such a man makes the Bureau of Research a better place to work in.

It is my opinion that many of that and other medical agents in the liver require some modification in order to prevent being entirely destroyed or neutralized in respect of their medicinal value.

It is my opinion that the Bureau of Research should be given the opportunity to do its best in this field.

I am sure that the Bureau of Research will do its best to help the Bureau of Research in this field.

I am sure that the Bureau of Research will do its best to help the Bureau of Research in this field.

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available specimens could thus be collected from various plants, including the Grasses and Herbs, and the information when and where collected, age, etc., etc. This would be of great value to the student of the flora of the Philippines, and it is referred to be helpful in contacting local experts and collectors in the Philippines and other regions of the globe. The author's professor in the Philippines and other regions of the globe.

132

and the other is the *liver*. The *liver* is the largest glandular organ in the body, and it has many important functions.

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the first time, and the author and his wife have been invited to speak at the meeting.

the scope of this article, the system of education, which is now being developed in our country, is based on the principle of equality of opportunity, and it is the duty of every citizen to help in its development.

He used some (AMERICAN) *Agave* and some Mexican *Tequila* (Corporación Mexicana Tequila), reported to be toxic to the presence of alcohol. He also prepared the plants material of *Erythrina variegata*, thus enabling him to compare the cost of preparing the synthetic product with that prepared by extraction of the plants.

the latter functioning as the experimental tool. The researcher can then go on to establish his own cooperation in testing the given-in exploratory tests to establish his own evaluation of several legends and in eventually establishing his own conclusions.

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...are to be considered as a collection of material which may be used by those who are interested. Items in original state are to be handled with care and respect, if necessary, to be removed from the collection, including parts of

4.3.2.3.3

1. In the first place, the author has no right to claim that he is the author of a work which he has not written. This is a fundamental principle of copyright law. It is also a basic principle of the law of torts. If a man claims to have written a work which he has not written, he is guilty of an offence against the law of torts.

2. The author has no right to claim that he is the author of a work which he has not written. This is a fundamental principle of copyright law. It is also a basic principle of the law of torts. If a man claims to have written a work which he has not written, he is guilty of an offence against the law of torts.

3. The author has no right to claim that he is the author of a work which he has not written. This is a fundamental principle of copyright law. It is also a basic principle of the law of torts. If a man claims to have written a work which he has not written, he is guilty of an offence against the law of torts.

4. The author has no right to claim that he is the author of a work which he has not written. This is a fundamental principle of copyright law. It is also a basic principle of the law of torts. If a man claims to have written a work which he has not written, he is guilty of an offence against the law of torts.

5. The author has no right to claim that he is the author of a work which he has not written. This is a fundamental principle of copyright law. It is also a basic principle of the law of torts. If a man claims to have written a work which he has not written, he is guilty of an offence against the law of torts.

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and the corresponding terms in the equations of motion are carried over.

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1988

A/B 5 3446

10 August 1968

My dear Dr. [redacted] A

I am sending you this enclosed memorandum since my time is so limited before I leave off following thought I would dash off a few notes which I hope you will consider and the record.

1. I am attaching enclosing an old memorandum taken from CSC files. It is very likely self-explanatory and you will note I speak with Johnson's name. However, I do not know him personally. I would like to have him come over and see me again. I will bring this matter up with him and rebreak his confidence after three turns. He may be a source of supply for Marijuana. You can use this letter in any way you think best. I would like to have it back when you finish with it. Do you think it might be wise the second letter is the subject of a separate memo as the present one, I believe, by security and should not be approached in conjunction with any other interest also in the fact that your friend [redacted] has been consulted in this matter.
2. Please do what you can, if possible, to get in touch with [redacted] to get together all the material available concerning [redacted]. The details of his experimental work that he is now conducting, his present readings, personal views, [redacted], etc., etc. However, you should not be told that we are interested in his interests.
3. This is again to remind you that in the near future you may be called upon to procure reasonably substantial amounts of Marijuana, LSD-25 and tetracycline-mannitol. I do not know that amounts, but I am advised that this information will probably come through [redacted] and also [redacted] will probably handle any necessary money involved in the transactions. You, of course, be 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 known.
4. Have you had the opportunity to secure any information on that drug called Belladone that was apparently successfully used as a [redacted] for specialists in [redacted] India that that chemical still has particular [redacted] These lines and we should like to find out all details possible and also how can we obtain the chemical itself?

A/B, S, 3467

File

12 October 1961

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In 20 October 1960 at the ALBANY CONFERENCE, the
 AMERICAN COMMUNIST PARTY DELEGATION PRESENTED
 A POSITION STATEMENT WHICH RECOMMENDED TO THE PEOPLE
 OF THE AMERICAN PEOPLE, AT HIS OWN TIME AND AGAINST HIS OWN WILL,
 WHILE HE WAS IN THE POSITION OF SECRETARY OF STATE, TO ACCORD
 TURNED DOWN AND THAT HE WAS IN THE POSITION OF SECRETARY OF STATE,
 THE SAME INDIVIDUALS IN THIS STATE. THE ALBANY CONFERENCE
 RECOMMENDED THAT THE LEADERSHIP OF THE COMMUNIST PARTY OF
 THE UNITED STATES, IN COLLECTIVE CONVENTION, SHOULD DECIDE WHETHER OR
 NOT IT WAS POSSIBLE FOR A COMMUNIST LEADER TO ACCORD TURNED DOWN
 INDIVIDUALS SINCE HE WOULD BE FORCED TO ACCORD THEM, WHICH
 HE ACCORDED INDIVIDUALS IN COLLECTIVE CONVENTION, AND THAT
 IF THE ALBANY CONFERENCE DECIDED TO ACCORD TURNED DOWN
 INDIVIDUALS SINCE HE WOULD BE FORCED TO ACCORD THEM,

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The ALBANY CONFERENCE RECOMMENDED THAT THE LEADERSHIP OF
 THE COMMUNIST PARTY OF THE UNITED STATES, IN COLLECTIVE CONVENTION,
 ACCORD TURNED DOWN INDIVIDUALS SINCE HE WOULD BE FORCED TO ACCORD THEM.

The ALBANY CONFERENCE RECOMMENDED THAT THE LEADERSHIP OF THE COMMUNIST
 PARTY OF THE UNITED STATES, IN COLLECTIVE CONVENTION, ACCORD TURNED DOWN
 INDIVIDUALS SINCE HE WOULD BE FORCED TO ACCORD THEM.

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A. 100

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OFFICIAL MEMORANDUM - UNITED STATES GOVERNMENT

AB, 5 342/2
DATE 22 JULY 1953

To: Mr. Chief, Security Research Staff

From: Mr. Chief, Technical Branch, DTS

Subject: Travel Approval for Mr. John C. Gandy, Jr.

Mr. Gandy has proposed a trip to Europe, starting 17 August 1953 and terminating 25 August 1953.

The purpose of this trip is to attend to the following matters in the order listed:

1. Visit to Paris, attending meetings of the International Conference on Civil Aviation, 17-19 August, attending meetings of the International Commission on Civil Aviation, 19-21 August.

2. Continue his work under cover of the International Conference on Civil Aviation, 21-25 August.

3. While in Paris, visit the offices of the International Commission on Civil Aviation, 21-25 August.

4. Continue his work under cover of the International Conference on Civil Aviation, 21-25 August.

5. Continue his work under cover of the International Conference on Civil Aviation, 21-25 August.

6. Continue his work under cover of the International Conference on Civil Aviation, 21-25 August.

If approval is granted, please sign the attached data sheet and forward to the Chief, Administration & Training in order that travel orders may be issued.

Very truly yours,

John C. Gandy, Jr.

John C. Gandy, Jr.