

天然資源開発利用会議 (UJNR) 報告

児 玉 栄 一 郎

日米合同調査について科学技術庁が引き受けた天然資源開発利用会議が昭和43年(1968)10月7日から10日までハワイ大学(Jefferson Hall)で開かれた。天然資源といつても結局は微生物の毒素についての学術会議であつた。微生物毒素は専らボツリヌス菌の毒素と、他の一つは「かび」の毒素とに限られた。日本からも米国からも略同数の研究者らが集まつたのであるが、秋田衛研からは児玉が参加してわが国のボツリヌス中毒の疫学について述べ、また岩手衛研

の中野弥所長と共同でわが国の飯ずしの実態と民族学に立脚した飯ずしの歴史的起源を報告した。常夏の国であつたが気候は快適であり、それにいろいろ問題があつたに拘らず会議の運びが滑かで難題についてはユーモアをもつて応ずるという極めて和やかな、そしてまた底の深い会議であり、数年後の再会を約して袂を別つ楽しい会議でもあつた。紙数の都合上各演題の要旨を述べ得ないので、演題だけ記しておく。

Joint U. S. - Japan Cooperation
on Development and Utilization of Natural Resources (UJNR)

Program for the
CONFERENCE ON TOXIC MICROORGANISMS

East-West Center, University of Hawaii, Honolulu, Hawaii

October 7-10, 1968

Monday, 7 October, 1968

Botulism Sessions

Asia Room

Chairman: Dr. Keith Lewis

- 0945-1005 B-1 PERSPECTIVES OF THE BOTULISM PROBLEMS IN JAPAN.
R. Murata
- 1010-1030 B-2 CRITICAL COMMENT ON RESEARCH NEEDS IN BOTULISM
ECOLOGY; NATURE AND ACTION OF TOXIN. C. Lamanna
- 1035-1100 B-3 THE DETECTION, IDENTIFICATION AND ISOLATION OF
CLOSTRIDIUM BOTULINUM. D. A. Kautter
- 1105-1124 B-4 TYPING OF CLOSTRIDIUM BOTULINUM TYPE E BY AGG-
LUTINATION. K. Yamamoto, H. Kudo, H. Asano, I. Sato,
T. Koshida, S. Nabeya, K. Kasai, Y. Horiuchi.
- 1130-1155 B-5 THE DISTRIBUTION OF CLOSTRIDIUM BOTULINUM IN THE
ECOSYSTEM OF THE GREAT LAKES. J. T. Graikoski

Chairman: Dr. G. Sakaguchi

- 1300-1320 B-6 VARIATION AMONG STRAINS OF CLOSTRIDIUM BOTULINUM AND RELATED CLOSTRIDIA. L. V. Holdeman, J. B. Brooks.
- 1325-1345 B-7 CLOSTRIDIUM BOTULINUM TYPE E IN AN INLAND BAY. H. Sugiyama, T. L. Bott, E. M. Foster
- 1350-1410 B-8 CLOSTRIDIUM BOTULINUM ALONG THE EASTERN COASTS OF AMERICA SOUTH OF STATEN ISLAND, NEW YORK. B. Q. Ward.
- 1415-1435 B-9 DISTRIBUTION OF CLOSTRIDIUM BOTULINUM TYPE E IN HOKKAIDO, JAPAN. K. Kanzawa, T. Ono, T. Karashimada, H. Iida.
- 1500-1520 B-10 DISTRIBUTION OF CLOSTRIDIUM BOTULINUM ALONG THE PACIFIC COAST OF THE UNITED STATES. M. W. Eklund.
- 1525-1545 B-11 EPIDEMIOLOGICAL OBSERVATIONS OF BOTULISM IN JAPAN, ESPECIALLY ON THE PRESENT STATUS IN AKITA PREFECTURE. E. Kodama.
- 1550-1620 B-13 PRODUCTION OF CLOSTRIDIUM BOTULINUM SPORES TYPES A AND B. A. Anellis, D. B. Rowley.

Tuesday, 8 October, 1968

Chairman: Dr. H. Iida

- 0830-0850 B-15 SEROLOGICAL SPECIFICITY OF BOTULINAL TOXINS. H. M. Johnson, B. G. Smith, K. Brenner, H. E. Hall, K. H. Lewis.
- 0855-0915 B-16 RAPID BIOASSAY FOR CLOSTRIDIUM BOTULINUM TYPE E TOXINS BY INTRAVENOUS INJECTION INTO MICE. G. Sakaguchi, S. Sakaguchi, H. Kondo.
- 0920-0940 B-17 ACTIVATION OF CLOSTRIDIUM BOTULINUM TOXIN BY TRYPSIN. H. Iida.
- 1010-1040 B-20 PURIFICATION AND MOLECULAR DISSOCIATION OF CLOSTRIDIUM BOTULINUM TYPE-E TOXIN. G. Sakaguchi.
- 1040-1110 FLOOR DISCUSSION
- 1115-1145 B-22 ABSORPTION OF CLOSTRIDIUM BOTULINUM TYPE E TOXIN FROM THE ALIMENTARY TRACT. T. Ono, T. Karashimada, H. Iida.

Chairman: Dr. C. Lamanna

- 1300-1325 B-23 EPIDEMIOLOGICAL AND CLINICAL OBSERVATIONS OF BOTULISM OUTBREAKS IN JAPAN. H. Iida.
- 1330-1355 B-24 CLINICAL AND EPIDEMIOLOGICAL ASPECTS OF BOTULISM IN THE UNITED STATES. V. R. Dowell, Jr., E. J. Gangarosa, R. W. Armstrong.

- 1400-1425 B-25 THE ANTIGENICITY OF THE FORMOL TOXOID DERIVED FROM THE PRECURSOR AND THE TRYPSIN-ACTIVATED TOXIN OF CLOSTRIDIUM BOTULINUM TYPE E. H. Kondo, S. Kondo, R. Murata, G. Sakaguchi.
- 1500-1530 B-28 THE EFFECTS OF MALATHION ON THE SUSCEPTIBILITY OF THE MALLARD DUCK (ANAS PLATYRHYNCHOS) TO CLOSTRIDIUM BOTULINUM TYPE C TOXIN. W. I. Jensen, J. M. Micuda
- 1535-1600 B-29 OUTBREAKS OF BOTULISM AMONG MINKS IN HOKKAIDO. T. Karashimada, T. Ono, H. Iida, Y. Ando, G. Sakaguchi, K. Komoda, S. Sakaguchi
- 1605-1630 B-30 SENSITIVITY AND IMMUNE RESPONSE OF FRESH-WATER FISH TO CLOSTRIDIUM BOTULINUM TYPE E TOXIN. H. Hiroki.

Wednesday, 9 October, 1968

Chairman: Dr. E. Kodama

- 0830-0919 B-31 BOTULISM : POTENTIAL HAZARDS OF FOOD PRESERVATION. K. H. Lewis, H. E. Hall.
- 0915-0955 B-46 ON THE REALITY OF "IZUSHI", THE CAUSAL FOOD OF BOTULISM AND ITS FOLKLORIC MEANING. W. Nakano, E. Kodama.
- 1020-1100 B-32 CHARACTERIZATION OF CLOSTRIDIUM BOTULINUM TYPE E TOXIN IN "IZUSHI". G. Sakaguchi, S. Sakaguchi.
- 1105-1150 B-33 U.S. REGULATORY ADMINISTRATION FOR CONTROL OF MICROBIOLOGICAL HEALTH HAZARDS IN FOODS. J. C. Olson, Jr.,

After noon

Trip to Polynesian Cultural Center.

Thursday, 10 October, 1968

Chairman: Dr. E. M. Sporn

- 0830-0910 B-35 THE HEAT RESISTANCE OF CLOSTRIDIUM BOTULINUM TYPE E IN FOODS. R. Angelotti.
- 0915-0940 B-36 THE THERMAL AND GERMICIDAL RESISTANCE OF CLOSTRIDIUM BOTULINUM TYPE A, B AND C. K. A. Ito, M. L. Seeger, C. W. Bohrer, C. B. Denny, M. K. Bruch.
- 1010-1040 B-37 IDENTIFICATION OF THE VOLATILE ACIDIC ODORS PRODUCED BY CLOSTRIDIUM BOTULINUM. Y. Ando, T. Karashimada.

- 1045-1115 B-38 INDUCIBLE BACTERIOPHAGES IN CLOSTRIDIUM BOTULINUM.
K. Inoue, H. Iida.
1120-1150 B-39 IN VITRO TESTS FOR CLOSTRIDIUM BOTULINUM. A. W.
Anderson, G. J. Niedermeyer

Chairman: Dr. K. Amano

- 1300-1325 B-40 INOCULATED PACK STUDIES ON CLOSTRIDIUM BOTULINUM
TYPE E IN UNIRRADIATED AND IRRADIATED HADDOCK. W.
P. Segner, C. F. Schmidt.
1330-1355 B-41 TOXIN PRODUCTION BY CLOSTRIDIUM BOTULINUM TYPE E
IN RADIATION PASTEURIZED FISH. Y. Ando, T. Karashimada,
T. Ono, H. Iida.
1400-1425 B-42 OUTGROWTH OF CLOSTRIDIUM BOTULINUM TYPE E IN
RADIATION PASTEURIZED FISH. J. T. Graikoski.
1430-1455 B-43 RADIOSENSITIVITY OF TYPE E BOTULINUS TOXIN AND
ITS PROTECTION BY PROTEINS, NUCLEIC ACIDS AND SOME
RELATED SUBSTANCES. T. Miura, S. Sakaguchi, G.
Sakaguchi, G. Sakaguchi, K. Miyaki.
1530-1600 B-44 RESISTANCE OF CLOSTRIDIUM BOTULINUM SPORES TO
IONIZING RADIATION AS RELATED TO RADAPPERTIZATION
OF FOODS. D. B. Rowley, H. EI-Bisi, A. Annelis, D. B.
Snyder.
1600-1630 B-45 EFFECTS OF CHEMICALS UPON THE GROWTH OF CLOSTRID-
IUM BOTULINUM. R. V. Lechowich.
1700-1730 PLENARY CLOSING SESSION, ASIA ROOM
J. A. Slater.

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