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ORNL**FOREIGN TRIP REPORT**

ORNL/FTR-3739

DATE: September 14, 1990

SUBJECT: Report of Foreign Travel of Kimiko O. Bowman, Senior Research Staff Member, Engineering Physics and Mathematics Division, ORNL

TO: Alvin W. Trivelpiece

FROM: Kimiko O. Bowman

PURPOSE: To attend and present an invited talk at the 5th International Congress of Ecology held at the Yokohama Prince Hotel, Yokohama, Kanagawa, Japan, August 23-30 and discussion with Dr. T. Okuno at Tokyo Science University.

SITES VISITED: 8/23-25/90—Conference Site (Yokohama Prince Hotel), Yokohama, Japan
8/27-28/90—Tokyo Science University, Tokyo, Japan (Dr. T. Okuno)

ABSTRACT:

This report, dated September 14, 1990, covers the trip to Japan of Dr. Kimiko O. Bowman, Senior Research Member in the Mathematical Sciences Section, Engineering Physics and Mathematics Division, Oak Ridge National Laboratory. The trip was supported by the Center for Indoor Air Research (CIAR).

The purpose of the trip was to attend and present an invited talk at the Fifth International Congress of Ecology held at the Yokohama Prince Hotel in Yokohama, Kanagawa Prefecture, Japan, August 23-30, 1990. The presented talk "Testing the Mutagenicity of Components" described two papers on research conducted under contract to the CIAR.

The section of Statistical Ecology, Topics in Statistical Ecology and Environment Statistics was organized by Dr. G. P. Patil, Center for Statistical Ecology and Environmental Statistics, The Pennsylvania State University and Dr. C. Hayashi, University of The Air, Chiba, Japan.

The only other site visited was Tokyo Science University by invitation of Dr. T. Okuno, Provost of the University.

The main activities consisted of attending the meeting, contributing to the discussion, and presenting an invited talk at the conference. The discussion with Dr. Okuno was on general biometric research topics. The main benefit was to gain greater international exposure for our work and to discover new applications for it. The traveler's previous work on this topic has been cited in over 250 journal articles earning it the title of "Citation Classic."

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II. Report

A. Purposes

The purpose of the visit was to attend and present an invited talk "Testing the Mutagenicity of Components" at the Fifth International Congress of Ecology held at the Yokohama Prince Hotel, Kanagawa Prefecture, Japan, August 23-30. This conference provided an opportunity for the traveler to present an invited talk and to discuss theoretical and applied statistics with researchers, other than statistics professionals, who are the users of our research results.

The discussion with Dr. Okuno is based on the traveler's long professional relationships with the Japanese statistical communities and helps to obtain new information of research activities in Japan.

B. Activities

The traveler's main activities consisted of attending the meeting, at which over 1700 scientists attended from approximately 70 nations, and of presenting an invited talk.

There were 18 parallel sessions on topics such as Biotic Interaction and Evolution, Ecological Approaches and Mathematical Techniques, Element Cycling and Material Flow, Air and Water Pollution, etc. The traveler attended the first three days of the meeting and had discussions with several scientists in different fields.

Although CIAR funded this trip, DOE also benefited from it because we are able to gain greater international exposure in the research area. The research on testing the mutagenicity of components was first initiated by DOE's Biomedical Program.

III. Appendix

A. Itinerary

- 8/20-22 Travel Oak Ridge to Honolulu to Narita-Yokohama-Isogo
- 8/23-25 Attend and present an invited talk at the 5th International Congress on Ecology
- 8/26 Weekend, travel Isogo-Yokohama-Tokyo
- 8/27-28 Visit Tokyo Science University
- 8/29-30 Travel Tokyo-Narita to Oak Ridge

B. Persons Contacted to a Significant Extent

1. Dr. Shiro Kobayashi, Faculty of Agriculture, Yamagata University, Yamagata, Japan
2. Dr. C. Hayashi, University of the Air, Chiba, Japan
3. Dr. G. P. Patil, Center for Statistical Ecology and Environmental Statistics, The Pennsylvania State University, University Park, Pennsylvania
4. Dr. Tadakazu Okuno, Director, Tokyo Science University 1-3, Kagurazaka, Shinjuku-ku, Tokyo, 162, Japan

C. Bibliography of Literature Acquired

ABSTRACTS of the Plenary, Symposium Papers and Posters presented at the FIFTH INTERNATIONAL CONGRESS OF ECOLOGY

D. Distribution

1. John J. Easton, Jr., Assistant Secretary for International Affairs, DOE, Washington, D.C. 20545
2. Dr. James F. Decker, Acting Director, Office of Energy Research, Washington, D.C. 20545
3. Dr. Donald K. Stevens, Associate Director for Basic Energy Sciences, Washington, D.C. 20545
4. Elizabeth Q. Ten Eyck, Director, Division of Safeguards and Security (DP-34) Department of Energy, Washington, D.C. 20545
5. A. Bryan Siebert, Jr., Classification and Technology Policy (DP-323.2), Department of Energy, Washington, D.C. 20545
6. J. A. Reafsnyder, Deputy Assistant Manager, Energy Research and Development, Oak Ridge Operations, P.O. Box 2001, Oak Ridge, Tennessee 37831
7. D. J. Cook, Director, Safeguards and Security Division, DOE/ORO
- 8-9. Office of Scientific and Technical Information, P.O. Box 62, Oak Ridge, TN 37831-0062
10. B. R. Appleton
11. K. O. Bowman
12. D. J. Downing
13. F. C. Maienschein
14. S. A. Raby
15. A. W. Trivelpiece
16. R. C. Ward
17. A. Zucker
- 18-19. Laboratory Records Department
20. Laboratory Records Department - RC
21. Laboratory Protection Division
22. ORNL Patent Section
23. ORNL Public Relations Office