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Ecological Research Center

CANOY COMPLETES SHRIMP STUDY

Part of a ten-paper series, "Organisms of Economic Potential," has been completed by Dr. Michael Canoy, director of the Ecological Research Center (ERC). The paper, dealing with the ascetes shrimp, is based on a presentation made by Dr. Canoy in San Jose, Costa Rica at an international meeting of the American Association for the Advancement of Science. The ascetes shrimp is an important high-protein food source in the Orient. Since vast numbers of these small shrimp may well exist in the Caribbean, harvesting and marketing them is an exciting economic possibility. The paper will be published at a later date.

EPA STUDY ON RUM EFFLUENCY UNDERWAY

A team of researchers and technicians, headed by Dr. Michael Canoy and assisted by Eric Klos of the University of Rhode Island, is in the midst of a three-month study for the Environmental Protection Agency (EPA) to determine the effects of pollution from a rum distillery on the waters surrounding St. Croix. \$120,000 was appropriated by the EPA for this "Rum Effluency Study." The technicians working on it are all CVI students.

ERC BEGINS ENERGY EXTENSION PROJECT

An Painter of Raleigh, North Carolina, has been appointed coordinator of the Energy Extension Service Project being undertaken by CRI through the ERC. The energy study team will work with consumers, architects, engineers, small businesses, the Community Action Agency, 4-H, the hotel industry, the Agriculture Extension Service and the V.I. Energy Office to identify priority areas for community outreach programs. At present, an Energy Information Room is taking shape at CRI. It will serve as a learning as well as a reference center and will be available to anyone interested in energy, its conservation and development of alternate energy source technology.

**ENERGY SOURCE
REPORT PUBLISHED**

In May, a 102-page report was prepared by the Institute and presented to the V.I. Legislature in response to Bill No. 7584. Entitled "Technology Assessment of Alternate Energy Sources for the Virgin Islands," the report was written by Dr. Michael Canoy. It is an important first step between CVI and the local government in planning a research and development program to deal with ever-increasing energy needs.

The three-pronged report 1) defines available technology for various energy sources, 2) describes local resources in terms of the most developed alternatives and 3) recommends legislative alternatives for planning and seeking federal research and implementation funds.

Dr. Canoy describes technologies associated with waste recycling, fuel cells, solar water heating and wind power. Also mentioned are the floating nuclear power plant and water technology, as it relates to the energy picture. Ocean thermal energy conversion, hydrogen fusion and ocean current conversions are described in the report as theoretically feasible energy sources. The Virgin Islands area is rated by some experts as one of the best sites in the world for ocean thermal and ocean current conversion studies.

Social Research Center

**CARIBBEAN NURSING
SERVICES EXPLORED**

An article written by Dr. S.B. Jones-Hendrickson, coordinator of the Social Research Center (SRC), will be published by Transaction, Inc. in a volume entitled THE NEW IMMIGRATION: IMPLICATIONS FOR THE U.S. AND THE INTERNATIONAL COMMUNITY, edited by Roy S. Bryce-Laporte. Via an econometric analysis, Dr. Jones-Hendrickson charts the push and pull factors in the movement of nursing services from the Caribbean. His work, "Spatial Diffusion of Nursing Services from the Caribbean to Britain," is included as Article 11 in Chapter 2 of Bryce-Laporte's book.

**F'STED ECONOMY
UNDER SCRUTINY**

"The Frederiksted Project," concerned with that town's economic revitalization, is in progress at CRI. Dr. S.B. Jones-Hendrickson revised the project in April and prepared budget data, as well as additional information regarding possible funding. This research project provides an overview, from a systems aspect, of the Frederiksted economy and will help establish new guidelines for its advancement.

**SEMINAR ON ECONOMIC
FORECASTING HELD**

The Institute sponsored a seminar on economic forecasting, organized by the SRC, on April 1. The day-long event was attended by college faculty, government personnel and the general public, in addition to CRI staff. Guest participant was Dr. Compton Bourne of the University of the West Indies and the Institute expresses gratitude for his special effort to attend. The seminar was regarded as a success and further efforts in this direction are being discussed.

**MICROSTATE
H₂O ANALYZED**

"An Analysis of Water in the Microstates of Antigua, the British Virgin Islands, Montserrat and St. Kitts-Nevis-Anguilla," was delivered in May by Dr. S.B. Jones-Hendrickson at the Caribbean Public Enterprises Workshop in Guyana. The work stresses that water is a critical factor in the development of microstate economies and points up the importance of the public sector's role in the production and provision of water services. In addition, the state of water supply is analyzed and water technology and water-saving devices are reviewed.

Water Resources Research Center

**"JUST ALLOCATION OF
A SCARCE RESOURCE"**

...was the theme of a conference held on June 1-2 at Bluebeard's Castle. Sixty persons participated in the event, sponsored by CRI's Water Resources Research Center (WRRC), the V.I. Planning Office and the V.I. Water Resources Commission. Topics covered included: history of water law in the United States and the Virgin Islands; enforcement of existing local laws governing management and use of water; and plans for a citizen handbook on water law. Adding their expertise to the sessions were the Utah State Engineer and professors of law from Florida and Arizona.

**PEEBLES STUDIES
EPHEMERAL STREAM**

At a meeting of the American Geophysical Union on April 17 in Miami, Dr. Roger Peebles, director of the WRRC, presented a paper on "Flow Recession in the Ephemeral Stream." He prepared a mathematical model of properties of the flood wave in streams that flow only in response to rainfall. This study has application in predicting streamflow volumes for water resource research.

**TECHNOLOGY ADVISORY
COMMITTEE MEETS**

The CRI Library was the setting for the first meeting of the WRRC Technology Research Committee on April 21. Dr. Norwell Harrigan, director of CRI, and Dr. Roger Peebles addressed the group and welcomed their participation in a discussion of several water-related proposals for the Virgin Islands. A number of helpful suggestions were made by the group, including a capsule summary of present local water problems, namely: availability, production, distribution and consumption. Keeping these problems in view, WRRC can now establish its fiscal year 1979 allotment program by redesigning the proposed projects to fit within the Center's capabilities.

The committee members are: Alton Adams, Anthony Boschulte, David Grigg, Bartlin Montiegle, Dr. Darshan Padda, William Saalman and Henry Smith. The director of the Institute and all the heads of CRI Research Centers are ex officio members of the committee.

Outreach Activities

RESEARCH LIBRARY IS TAKING SHAPE

In recent months, the Institute has been organizing a special library with emphasis on its research concerns. At the end of June, through the cooperation of the government of the British Virgin Islands, Verna Penn, A.L.A., chief librarian, served as a short-term consultant for the project. As a result of her efforts, the library is in the midst of completion. A student aide provided by the Comprehensive Employment Training Act (CETA) will continue work on the project in the fall.

FIRST WORKING PAPER AVAILABLE

The proceedings of a seminar on "Forecasting in Microstate Economies," edited by Dr. S.B. Jones-Hendrickson, were published in April as a Working Paper. The Working Paper Series at CVI is geared to disseminating progress in research at CRI to the public. This first Working Paper has five contributing authors: Compton Bourne, S.B. Jones-Hendrickson, Malcolm Kirwan, Jerome McElroy and Frank Mills.

ST. THOMAS, TORTOLA GROUPS HEAR DIRECTOR

Dr. Norwell Harrigan was the keynote speaker at Commencement Exercises of Eudora Kean High School on June 4. His message to the St. Thomas graduates stressed the importance of the preparation they must make in order to assume the responsibility that will fall to them, as new adult citizens, with the granting of the new Virgin Islands Constitution.

On June 28 in Tortola, Dr. Harrigan addressed a convocation of the British Virgin Islands Civil Service Association, of which he was co-founder, on the subject "Whither Virgin Islands?" Honorable Willard Wheatley, MBE, chief minister of the islands, attended and contributed to the discussion following the speech. A local newspaper described the well-attended session as "...creating lively and interesting discussion which had to be cut off, as it was long after the time it was scheduled to have ended."

BIBLIOGRAPHY IS PUBLISHED

Recently published for the Institute by the Center for Latin American Studies, University of Florida and University Presses of Florida at Gainesville is a 209-page book, A BIBLIOGRAPHY OF ARTICLES ON THE DANISH WEST INDIES AND THE UNITED STATES VIRGIN ISLANDS IN THE NEW YORK TIMES, 1867-1975. The volume is authored by Arnold Highfield, Assistant Professor of the Social Sciences and Linguistics at the St. Croix Campus of CVI, in collaboration with Max Bumgarner. Notification to the public will be made concerning its availability when word is received from the publishers.

HARRIGAN ATTENDS ST. CROIX MEETING

A meeting of the Caribbean Fishery Management Council in St. Croix on April 19-21 was attended by the CRI director. He serves as Vice-chairman of the Council's Scientific and Statistical Committee.