

stony brook review

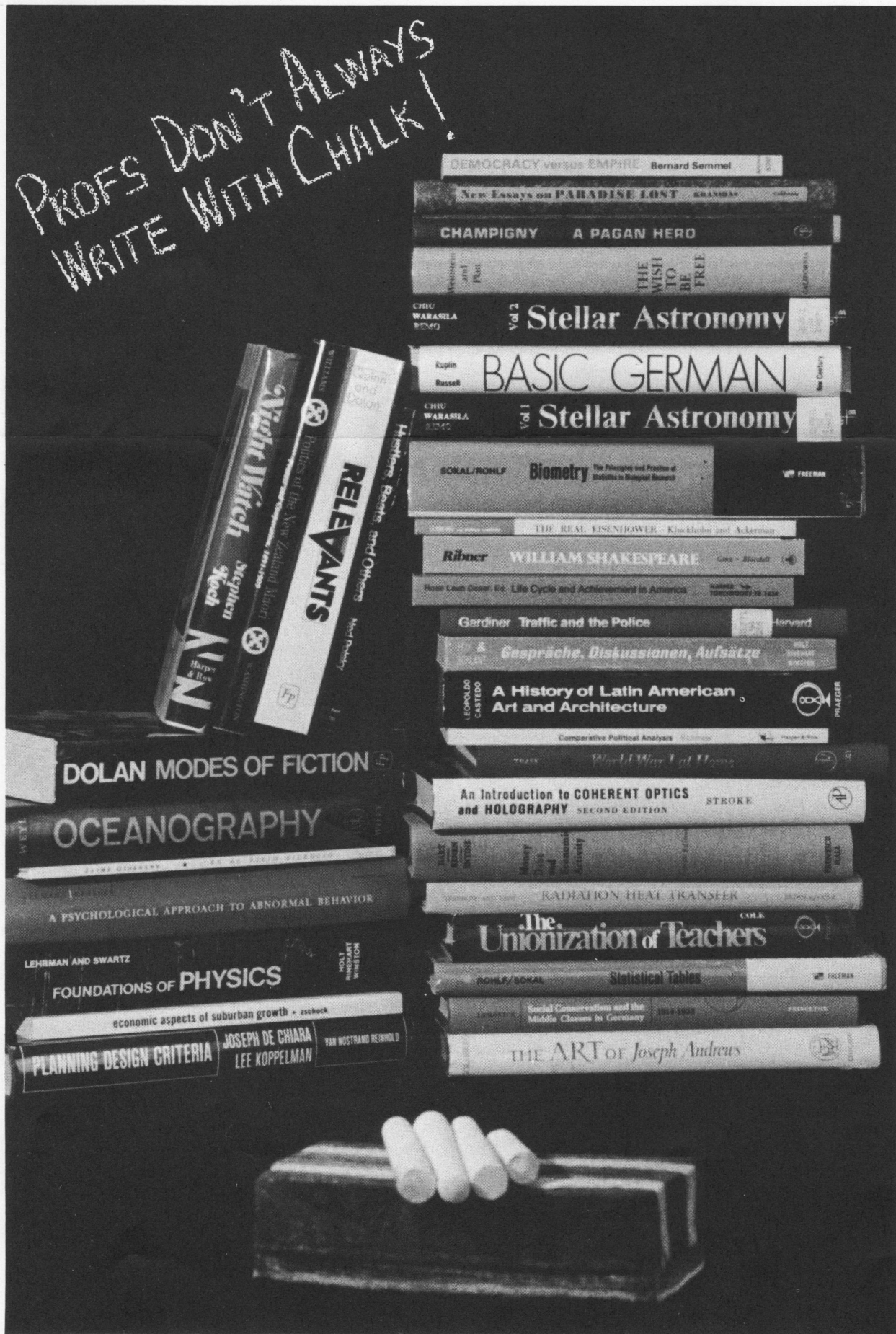
"State University Chancellor Samuel Gould's assurance that John S. Toll will be returning to the university's Stony Brook unit after a temporary Albany assignment is welcome news. As president of the State University at Stony Brook, Toll has in a little over four years built the foundations of a great university. He has assembled an outstanding faculty, which is already gaining international respect for the Stony Brook campus. A few months ago, for example,

1500 scientists from 36 countries gathered at Stony Brook for the Eighth International Congress of Crystallography, one of the major scientific conferences of the year.

"We hope Toll's Albany chores will be completed with dispatch. Long Island needs the State University at Stony Brook, and Stony Brook needs John Toll."

Newsday

A MONTHLY PUBLICATION OF THE STATE UNIVERSITY OF NEW YORK AT STONY BROOK / FEBRUARY 1970



They often write with pen, pencil and typewriter, with engineering precision, scientific accuracy, literary style, artistic detail.

Stony Brook professors, many acknowledged leaders in teaching and research, are rapidly developing national reputations in the publishing field. In the past year Stony Brook faculty members have published about 550 books, texts, articles, reviews, translations, introductions, chapters, poems, scores, papers and reports. Numerous other writings are now in the process of being completed or in press.

Articles by faculty have appeared in periodicals as diverse as *Redbook*, *Nation*, *New York Times Magazine*, *Piano Quarterly*, *Arts Magazine*, *Camping*, *Dance Magazine*, *Journal of Organic Chemistry*, *Nature*, *Geological Society of America Proceedings*, *Journal of Asian Studies*, *Nursing Research*, *Bulletin of the American Physical Society* and *American Mathematical Monthly*. The April and May issues of *Harper's* included works by three Stony Brook professors.

At least five national journals — *The Physics Teacher*, *American Naturalist*, *Socio-Economic Planning Sciences*, *Quarterly Review of Biology* and *Stony Brook* (poetry journal) — are now being edited on an ongoing basis by Stony Brook faculty.

More than 35 individual books have recently been published by faculty members. These vary from textbooks for physics, psychology, economics, German and oceanography to a history of Latin American art, a biography of Eisenhower, a collection of writings about marijuana, an examination of New Zealand native politics, an analysis of revolution, a study of growth problems on Long Island, and *Night Watch*, a novel set in Suffolk County.

Many Stony Brook professors, graduate assistants, undergraduate researchers, secretaries and typists are praised in the introductions to these various books. Dr. Howard Scarrow, for example, wrote in his preface, "To the students at the State University of New York at Stony Brook must go credit for providing the stimulus that led to the undertaking of the volume."

Books published by Stony Brook faculty since January 1969 include:

The Art of "Joseph Andrews" (University of Chicago Press) Dr. Homer Goldberg, associate professor of English. A critical study of Henry Fielding's first novel in the context of his continental models, particularly *Don Quixote*.

Basic German (Appleton - Century - Crofts) Dr. Ferdinand A. Ruplin and Dr. John R. Russell, assistant professors of German. A programmed first year German language textbook and accompanying teachers' manual.

Biometry (W. H. Freeman) Dr. Robert Sokal and Dr. F. James Rohlf, professor and associate professor, respectively, of biological sciences. An advanced textbook dealing with applications of statistical methods to biological research.

Comparative Political Analysis: An Introduction (Harper & Row) Dr. Howard A. Scarrow, professor of political science. A critical review of the theoretical concepts and methodological techniques of comparative political analysis.

Democracy Versus Empire (Doubleday) Dr. Bernard Semmel, chairman of the history department. Story of controversy stirred when a British governor used extreme force to put down an insurrection on the island of Jamaica in 1865.

Economic Aspects of Suburban Growth (Economic Research Bureau) edited by Dr. Dieter K. Zschock, assistant professor of economics and director of the Economic Research Bureau. A collection of five studies and two commentaries on the problems of burgeoning Nassau and Suffolk Counties.

En el Viejo Silencio (Las Americas) Jaime Giordano, assistant professor of Spanish. A selection of 31 Spanish poems by the author.

Foundations of Physics (Holt-Rinehart & Winston) Dr. Clifford Swartz, professor of physics. A revised edition of an introductory physics text for senior high school and college use.

Gesprache, Diskussionen, Aufsätze (Holt-Rinehart & Winston) Irmgard Feix, instructor in German; and Dr. Ernestine Schlant, assistant professor of German. An introduction to German conversation and composition for the college student entering his third year of German.

A History of Latin American Art and Architecture from Pre-Colombian Times to the Present (Frederick A. Praeger) Leopoldo Castedo, chairman of the department of art. An authoritative survey and synthesis, emphasizing environmental and historical aspects which have contributed to the 3000-year continuity in Latin America of a "distinctive aesthetic expression."

Hustlers, Beats, and Others (Doubleday Anchor) Dr. Ned Polsky, associate professor of sociology. A revised paperback edition of an earlier work on the sociology of deviance.

An Introduction to Coherent Optics and Holography (Academic Press) Dr. George W. Stroke, professor of electrical engineering. A revised and enlarged edition of an earlier work detailing the basics of the developing fields.

Life Cycle and Achievement in America (Harper & Row) edited by Dr. Rose Laub Coser, adjunct professor of sociology. A collection of sociological studies dealing with man's socialization processes from infancy to death.

Marijuana (Atherton Press) edited by Dr. Erich Goode, assistant professor of sociology. An anthology of writings on the sociological, psychiatric, legal and educational aspects of the drug, presented to encourage an assessment of its appeal and an understanding of its origin and effects.

Measure and Find Out (Scott-Foresman) Dr. Clifford Swartz, professor of physics. A three-volume elementary school textbook in general science, complete with teachers' guides.

Modes of Fiction (Free Press) edited by Dr. Paul J. Dolan, assistant professor of English and assistant dean of the Graduate School. An anthology of short stories and novellas by some of the world's best fiction writers.

Money, Debt and Economic Activity (Prentice-Hall) Dr. Alan D. Entine, assistant academic vice president; and Albert Hart and Peter Kenen. Fourth edition of an advanced money and banking text for upper level undergraduate or first year graduate students.

New Essays on "Paradise Lost" (University of California Press) edited by Dr. Thomas Kranidas, professor of English. A collection of recent essays on John Milton's 300-year-old work.

Night Watch (Harper & Row) Stephen Koch, assistant professor of English. A novel about a brother and sister whose loneliness turns them to incest.

Oceanography: An Introduction to Marine Environment (John Wiley & Sons) Dr. Peter K. Weyl, professor of earth and space sciences and member of the Marine Sciences Research Center. General introductory college textbook covering all aspects of

oceanography from an environmental viewpoint.

A Pagan Hero (University of Pennsylvania Press) by Robert J. Champigny, translated by Rowe Portis, graduate teaching assistant. An interpretation of the central character in Albert Camus' *The Stranger*.

Planning Design Criteria (Van Nostrand Reinhold) Joseph De Chiara and Lee Koppelman, visiting lecturer in political science. A basic reference book of current urban design standards.

Politics of the New Zealand Maori: Protest and Cooperation, 1891-1909 (University of Washington Press) Dr. John Williams, associate professor of history. A study of the indigenous people of New Zealand analyzing a crucial period of their attempt to develop political power within the settler-dominated society.

A Psychological Approach to Abnormal Behavior (Prentice-Hall) Dr. Leonard Krasner, professor of psychology; and Dr. Leonard Ullman. A social-psychological approach to abnormal behavior.

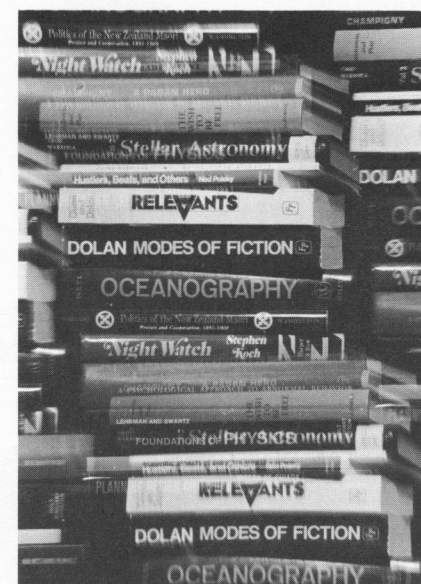
Radiation Heat Transfer (Brooks/Cole) Dr. Robert D. Cess, professor of engineering, and E. M. Sparrow. An engineering textbook which deals with basic characteristics of thermal radiation and of the radiation properties of surfaces and participating media.

The Real Eisenhower (Columbia Heights Press) Frank L. Kluckhohn and Dr. Donald Ackerman, coordinator of research. An evaluation which attempts to balance praise and criticism to achieve a new perspective on the famed soldier-statesman.

Relevants (Free Press) edited by Dr. Edward Quinn and Dr. Paul J. Dolan, assistant professor of English and assistant dean of the Graduate School. A book of readings reflective of the style, substance and quality of the contemporary American experience.

Social Conservatism and the Middle Classes in Germany, 1914-1933 (Princeton University Press) Dr. Herman Lebovics, professor of history. An analysis of the problems of the middle class in pre-Nazi Germany.

The Social Studies: Structure, Models, Strategies (Prentice-Hall) Dr. Eli Seifman, chairman of the department of education, and Martin Feldman. An exploration of the structure of social science disciplines, presenting various



approaches to methods and objectives, and offering practical classroom demonstrations and suggestions for stimulating creative teaching.

Statistical Tables (W. H. Freeman) Dr. F. James Rohlf and Dr. Robert Sokal, associate professor and professor, respectively, of biological sciences. A newly developed computer-generated set of statistical tables.

Stellar Astronomy (Gordon & Breach) edited by Dr. Hong-Yee Chiu, associate professor of earth and space sciences; Robert L. Warasila, research assistant in earth and space sciences; and John L. Remo. The proceedings, in two volumes, of the Summer Institute for Observational Astronomy held at Stony Brook in the summer of 1967.

Traffic and the Police (Harvard University Press) Dr. John Gardiner, associate professor of political science. A study of the varying degrees of traffic law enforcement in different areas of the country.

The Unionization of Teachers: A Case Study of the UFT (Frederick A. Praeger) Dr. Stephen Cole, assistant professor of sociology. An analysis of teacher militancy and unionism including the preconditions to effective organization, reaction of public authorities to union organizing efforts, and probable impact of unionization on the professional status of teachers.

William Shakespeare: An Introduction to His Life, Times and Theatre (Blaisdell) Dr. Irving Ribner, chairman of the department of English. An organized collection of scholarly material providing the layman and student with an idea of the scope of Shakespearean studies, criticism and methods.

The Wish To Be Free: Society, Psyche and Value Change (University of California Press) Fred Weinstein, associate professor of history; and Gerald M. Platt. An investigation of revolution as a form of social change in historical, psychoanalytic and sociological terms.

World War I at Home (John Wiley & Sons) edited by Dr. David F. Trask, chairman of the department of history. A collection of readings from popular mass circulation magazines of 1914-1920 which illustrate the domestic experience of the American people during World War I. □

UNIVERSITY PREFERS REGIONAL PLANNING TO GROUP HOUSING LAW

The University recently gave a strong pledge of support for Brookhaven Town and the Three Village area. The pledge, offered by Dr. Sheldon Ackley, assistant to President John S. Toll, was to assist in efforts to plan "the needed growth of the Town and region so that their quality of living can be maintained at the same time that a larger population with rapidly changing needs and varied interests can be accommodated."

Dr. Ackley, addressing a February meeting of the Brookhaven Town Board, said, "The University has made its plans available to both the Planning Board of the Town and the Bi-County Planning Commission and is seeking closer liaison with both bodies so there will be a constant exchange of information and the opportunity for cross-fertilization in this planning function in which we are all necessarily involved."

"We look forward to working with others who are planning for the needs of 1980 and the more distant future, confidently expecting the Three Village area and North Brookhaven to be even more attractive than it is now. It is our aim, just as it is that of our neighbors."

A housing ordinance which would have prohibited more than four related persons from sharing a single family residence near the University was defeated by the Board at the meeting.

At the same meeting, the Board created a new 15-member commission to study how single family residences within Brookhaven Town were being used.

The defeated ordinance was drafted in November of 1969 to limit student "groupers" who share homes near the University. A group of Three Village

residents backed the proposal, saying that the residential atmosphere of their neighborhoods was being impaired.

At a series of public meetings during December and January, students, faculty, administration officials and community leaders discussed the problem. The public hearing before the Town Board on January 20 united faculty, administration and students in a "rare show of unanimity," according to Dr. Ackley.

Dr. Ackley in his testimony said the measure was poorly conceived, unenforceable and would not achieve its purpose. "The law would depend for its enforcement upon action by police officers carrying warrants and acting upon complaints made by persons who can only speculate upon the relationships that may exist among the occupants of the residence," Dr. Ackley said.

Other organizations which joined the University at the public hearing in opposition to the measure included: the National Association for the Advancement of Colored People, Suffolk County Human Relations Commission and New York Civil Liberties Union, Suffolk Chapter. □

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THOUSANDS FIND STONY BROOK CAMPUS A NICE PLACE TO HOLD A CONFERENCE

Maureen Bybee and secretary Mae Mosley arrange 75 conferences a year.



400 Boy Scout and Girl Scout leaders from all over Long Island
250 mathematicians from all over the country
200 physicists from all over the world
150 high school music teachers
100 astronomers
75 lawyers
35 nurses

All of the above and more than 4000 additional persons attended conferences on the Stony Brook campus during the past year.

More than 75 specific workshops, conferences, seminars and institutes, each drawing from five to 2000 outside participants, were scheduled in 1969 by the conferences and events department of the Office of University Relations.

Diverse people: dentists, legislators, historians, conservationists, guidance counsellors.

Diverse groups: American Cancer Society, Women's International League for Peace and Freedom, Association for Retarded Children, New England Village Civic Association, Long Island Better Business Bureau.

Diverse interests: population genetics, integrated circuits, stellar evolution, truth in lending, Brazilian history, numerical taxonomy.

One of the smallest groups to meet on the campus was a half dozen college students from El Salvador who were studying American education under the auspices of the U.S. State Department.

By far the largest gathering was the Eighth International Congress of Crystallography. Some 2000 scientists and their families from Moscow to Tokyo wine, dined, conferred and slept on the campus for a week last August.

Any educationally related or civic service organization is permitted to

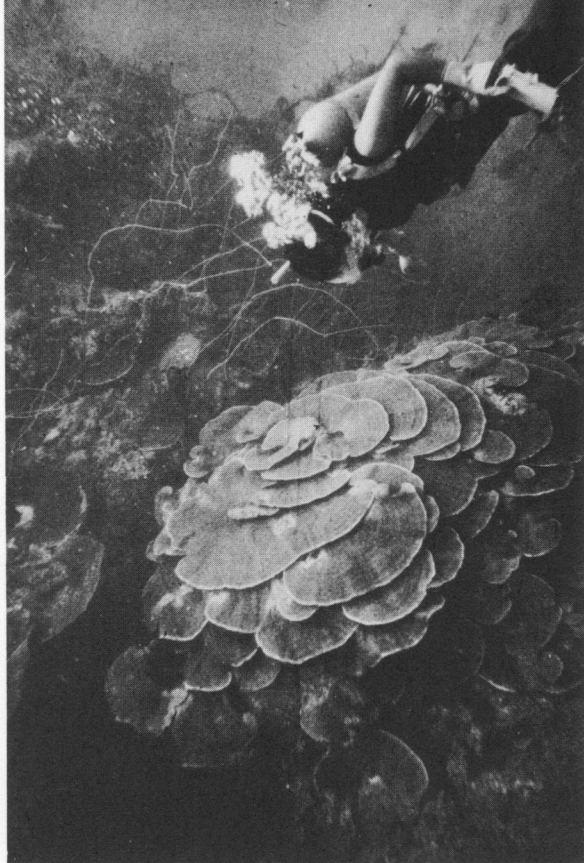
meet on campus, if facilities are available.

Ironing out the myriad of details — the scheduling and logistics — is Mrs. Maureen Bybee, coordinator of conferences and events. Arranging housing, meals and transportation is only the beginning. Meeting rooms must be reserved, signs posted, parking allocated, tables and chairs arranged, microphones hooked up, ash trays provided, conflicts avoided and catastrophes averted, if possible.

Of course, things don't always run smoothly. There was the ornery refrigerator that Mrs. Bybee had to fix herself on the Fourth of July. The directional signs which were put up in the wrong direction. And the clambake incident.

In preparation for a typical New England clambake arranged by the crystallography conference personnel, a huge pit, large enough to bake clams and lobsters for 2000 people, was dug on the beach at Smith's Point in the morning. But by afternoon when the crystallographers began to arrive, the pit had been angrily filled in by state troopers who had accidentally driven their squad car into it.

Most problems and complications get resolved by Mrs. Bybee, with a smile here and a snarl there. She must be doing something right: already conferences this year are running ahead of last year—and many organizations are requesting return visits. □



Diver-researcher examines a coral reef near the university's laboratory in Jamaica, W.I.

Discovery Bay Laboratory: research in the tropics

This winter, while Americans by the thousands are basking in the sun at luxurious hotels on Montego Bay, a few diligent State University of New York researchers are hard at work probing the mysteries of marine biology in a small laboratory 40 miles down the coast in the town of Discovery Bay.

Operated jointly by the State University's Marine Sciences Research Center, located at Stony Brook, and the University of the West Indies, the Discovery Bay Lab, on the north shore of Jamaica, provides an unrivaled opportunity to study tropical biology, particularly the complex ecology of coral reefs.

The laboratory overlooks Puerto Seco Bay, a natural aquarium, 1.3 miles wide and 200 feet deep, which is almost completely enclosed by a barrier reef. On the seaward side of the reef, 71 species of shallow-water coral have been collected, more than in all other areas of the Caribbean combined. Current projects include investigations of the calcification process by which coral reefs are built in such organisms as the calcareous algae, sponges, corals, serpulid worms and molluscs.

The extreme steepness of the outer slope of Jamaica's north shore causes habitat zones of the forereef to be telescoped within a small horizontal distance. Deep-water work can be carried out within a short distance of the laboratory using small vessels. Two

miles north of the station the sea reaches a depth of over 1500 feet; eight miles away it is over 10,000 feet deep. A variety of rocky, sandy, muddy, estuarine, mangrove and lagoon-type coastal habitats are within driving distance of the laboratory.

Puerto Seco Bay is rich with plankton of many diverse species, especially in larval form. Both hard and soft-bottom coral communities can be collected by dredging or diving. For the non-swimming investigator, shallow back-reef and reef-crest communities are accessible by small boat.

Most visiting researchers working with experienced scientist-divers quickly learn to use SCUBA diving equipment as a tool for making field observations. The technique mastered, the marine biologists and geologists are then able to proceed with their own underwater programs.

The facility is directed by Dr. Thomas Goreau, a member of the faculty of both Stony Brook and the University of the West Indies. He has directed the laboratory since it was established in 1965.

The laboratory's new central research building contains four small laboratories, a darkroom, museum, office space and a wet laboratory. The wet laboratory is equipped with six semi-enclosed research bays with seawater aquaria, sorting and holding tanks. A separate reading and conference room and temporary living quarters accommodating four visitors are nearby. □

TOLL SEEKS TO ANSWER:

WHERE ARE WE GOING? WHAT SHOULD WE DO?

"What are our objectives, really? What are we trying to accomplish, and why? What is the appropriate work of this University—in this decade, in this society, in New York State, in the national and international educational picture?"

These were the questions posed by Chancellor Samuel B. Gould as he launched "a university-wide analysis and discussion of just what the University should or should not be doing."

That study will be carried out by the Chancellor's new Panel on University Purposes, a group of some 50 civic, government, labor and educational leaders who have been charged with a major role in determining the future course of the 70-unit state university system.

The panel's work will be watched with particular interest at Stony Brook. Establishment of the panel began with the appointment of Stony Brook's President John S. Toll as the first in a series of university system presidents who will direct its work. To assume this responsibility, Dr. Toll has taken a leave of absence from Stony Brook. During his service with the panel, from now through the summer, he will remain in close contact with the campus, spending many long weekend hours in his office here. However, campus administrative responsibilities during this period have been assumed by Executive Vice President T. A. Pond who is serving as Acting President.

"What we're doing is trying to determine what the state university system must be like in the 21st century," Dr. Toll said during a brief campus visit recently. "This is not an annual planning review. It's an at-

tempt to look two, three and more decades into the future, to develop imaginative yet highly workable directions for the years ahead."

Faculty members and students from state university units throughout the state are working on Dr. Toll's staff. They will be preparing position papers for the panel on societal trends, educational needs, technological developments, university facts and New York State projections. The papers will be circulated to each state university campus for refinement, criticism, additions or counter-proposals in order to insure university-wide involvement in the panel's work.

Dr. Toll said the panel will take "the broadest possible look" at the university and its future. This work started with broad-based background reading for panel members. "We've selected readings that range from Cardinal Newman to Clark Kerr," Dr. Toll said. "We've even sent out copies of Alvin Toffler's article on 'future shock' from *Playboy* in order to get everyone in the right frame of mind."

Among the panel's 45 members are Seymour H. Knox, chairman of the State Council on the Arts; Donald H. McGannon, president and chairman of the Westinghouse Broadcasting Company; Dr. Frederick Seitz, president of Rockefeller University; Harry Van Arsdale, Jr., chairman of New York City's Central Labor Council; Dr. T. Norman Hurd, State Budget Director; Assemblyman Milton Jonas, chairman of the Joint Legislative Committee on Higher Education; State Senator Robert Garcia of the Bronx; and the Rev. Dr. Moran Weston, former president of the Carver Federal Savings Bank in Harlem. □

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