Dr. Rudo Gets Grant to Develop Intravenous Anesthetic

Dr. Frieda Rudo, associate professor in the department of pharmacology at the School of Dentistry, is carrying on the pioneer work in anesthetics begun 26 years ago by Dr. John C. Krantz, Jr., now professor emeritus of pharmacology at the university's medical school.

Dr. Rudo recently received a $20,000 grant to develop a new intravenous anesthetic. She recalled her work as part of a team under the direction of Dr. Krantz, who in 1946 was given one of the first research grants awarded to the School of Medicine. That work, she said, resulted in two widely used inhalation anesthetics: Ethrane, a general anesthetic which came on the market last month, and Forane, which is in the final stages of clinical trials.

Both grants were from Airco, Inc., the research division of Ohio Medical Products, which provides compounds that the university's scientists test for their effects as anesthetics.

"I am optimistic about the future of the intravenous anesthetic grant in producing a new clinically useful agent, providing research fellowships, and enhancing our graduate programs," said Dr. Rudo.

She explained that while there are intravenous anesthetics on the market, none is perfect, and her search is for a better compound.

Reflecting on Dr. Krantz's work, she said, "In 20 years it produced close to 200 scientific articles and provided research fellowships for 26 graduate students."

Dr. Krantz and his team had done structure-activity studies on fluorinated ethers and other fluorinated compounds synthesized at Airco and tested in the department in hopes of coming up with an improved nonflammable general anesthetic. Fluoromar, or trifluoroethyl vinyl ether, was the first fluorinated anesthetic to evolve from this research and the first fluorinated anesthetic to be used in man. (The suffix mar is derived from Maryland.)

Another of the compounds developed in 1957 by the team was hexafluorodiethyl ether (Indoklon). Dr. Krantz and his associates tested the compound on the assumption that it would be a more volatile and less flammable anesthetic agent than ethyl ether. When Dr. Krantz first sprinkled a few drops of it into a jar containing a white rat, instead of becoming anesthetized, the rat became greatly excited, leaped from the jar, and convulsed on the table top. After more investigation, it was discovered that hexafluorodiethyl ether at very low concentrations is a potent short-acting convulsant whose action resembles that of electroshock. Today Indoklon is being used by psychiatrists as a substitute for electroshock therapy in acutely depressed and schizophrenic patients. It is regarded by many experts as equal to or superior to the older procedures in psychiatry, and patients do not fear it as they do electroshock.

Eskows, N. J. Alums Donate Funds

Dr. and Mrs. Jack M. Eskow have contributed $1,000 to the dental school toward furnishings for a new teaching facility for continuing education courses. Dr. Eskow, a New Jersey alum who graduated in 1933, made the donation as a memorial to his parents.

The New Jersey Dental Alumni have also donated $1,000 to the school to assist in improving the postgraduate clinic area. Dr. Rudolph A. Novello, a 1953 graduate of the school, presented the check to Dean John J. Salley at the annual meeting of the group in October in Irvington, New Jersey.
School of Dentistry has become one of the leaders in a rigid four-year curriculum, but as the need for health care has increased, the University of Maryland School of Dentistry has become one of the leaders in investigating new ways of producing competent practitioners as economically and swiftly as possible.

The school's division of educational and instructional resources is conducting curriculum studies for the United States Public Health Service, which has granted them nearly $1 million for that purpose.

Basic to the investigation is the idea that different students have different backgrounds, motivation, and ability, and can therefore progress at different rates.

Out of this year's first-year class of 138, 10 students who for a variety of reasons have been termed advanced will get their education through independent study, with the help of three faculty members, outside the normal classroom situation. These students will graduate in three years if they are found to have learned as much as those in the four-year curriculum.

On the other hand, 10 students who have been found to be educationally, economically, and culturally less prepared for dental school than is the norm will also progress through the school at their own rate and will also be given special attention by the faculty. It is understood that these students, however, may need more than four years to complete the courses.

Both groups will go through much more individualized curricula than the average student, said Dr. Ernest F. Moreland, director of the division of educational and instructional resources. Dr. Martin Lumin, associate dean for curriculum, is leading the special programs committee, which will plan the curriculum for both groups.

The main medium for the message is the school's independent learning center, the first and until recently the only one of its kind in the country. The center provides 50 study carrels (soon to be expanded to 100) in which students can learn from more than 500 taped lectures, slide tape presentations, and other audiovisual programs for freeing students and teachers from the plethora of routine lecture-type presentations, student-teacher contact will be increased where "face to face" assistance is needed.

Along with the curriculum studies are planned a stepped-up minority recruitment program and establishment of a tutorial committee which will provide diagnostic, evaluative, and tutorial assistance to all students.

While the overall goal of the shortened curriculum is to turn out more dentists in shorter time, the idea behind allowing the high-risk students to take longer is that lowering the attrition rate will produce more veterinarians in the long run.

As an important by-product of the study any materials which are produced for either the advanced or high-risk students can be used by those in the conventional curriculum.

The tutorial faculty for the advanced students includes Dr. James Swaner, Dr. Donald L. Olson, and Dr. Rodger Sicca. Dr. Charles L. Leonard Jr. will be responsible for coordinating all basic science tutorial activity for the high-risk students. Barbara Jarecky will provide reading and study skills instruction, and a full-time dentist will be hired to give special help in clinical instruction.

ADA Head Addresses Seniors

The president of the American Dental Association told the university's senior dental students recently that dental organization is necessary to find out what is happening in dentistry, to determine current professional views, and to present those views to the practitioners.

"It is a necessary evil with the emphasis on necessary," said Dr. Carl A. Laughlin, speaking at the American College of Dentists Day at the school. The day was planned, said Dr. Charles T. Prigeon, assistant dean for continuing education and chairman of the Maryland section of the organization, to expose students about to graduate to prominent people in the field.

Dentists who contribute more to the profession than is expected of them are elected to the college.

Dr. William K. Collins, secretary of the Northeast Regional Board of Dental Examiners, also spoke to the group, on "What Dental Licensure has Meant to the Development of Dentistry in the United States.”

Former Faculty Member Publishes Literary Tidbits About Dentistry

Gardner P. H. Foley served on the School of Dentistry faculty from 1928 until his retirement three years ago, and for 39 of those 41 years he gathered all of the items he could find from literature and history having to do with dentists and their clients.

Mr. Foley has published his collection, which is apparently an anthology, Foley's Footnotes: A Treasury of Dentistry, which came out in August from Washington Square East, of Wallingford, Pennsylvania.

"Foley's Footnotes" have been appearing in the Journal of the American Dental Association since 1961, as brief column-fillers or longer articles. The current issue prints six of them—including quotes from Evelyn Waugh, Adam Smith, Horace Walpole, and Ananga Ranga, a Hindu book on the art of love.

Mr. Foley began his collection in 1959, at the time of the centennial of the founding by Chapin A. Harris and Horace H. Hayden of the dental school. He intends to leave his library to the school.

A resident of Roland Park in Baltimore, Mr. Foley is already working on a second volume of his anthology.

In the September 17 issue of the Sunday Sun, James H. Bready reviewed the book, and said:

"If all these years the literature of dentistry has been fragmented and obscure, with not yet one top-rank novel or autobiography to its credit (but some excellent verse—Mr. Foley begins his book with Christopher Morley and ends it with Ogden Nash), Mr. Foley is causal in the reasons. Dentistry lacks the drama of, for instance, its big cousin medicine, the reader suspense of epidemics and microbe-hunting and touch-and-go surgery. Yet, he maintains, teeth have played decisive roles at moments in fiction and nonfiction.

Mr. Foley has up his sleeve a little-known Civil War novel in which western Maryland's battle of South Mountain hangs on a toothache."

Faculty Tapped for Radio Program

Faculty from the School of Dentistry have been tapped for guest spots on the Sunday morning (8 a.m.) radio program "Dental Conversations" on Baltimore's WCAO.

Several faculty members, including Leah Staling, instructor in physiology, and Dr. James R. Swaner, assistant professor in oral pathology, have already been heard on the show, which is moderated by Dr. Arnold Feldman, a Baltimore endodontist and 1955 graduate of the school.

Independent Learning Center Open To Area Practicing Dentists

The independent learning center of the School of Dentistry is now open to dentists and dental auxiliaries in the area for the purpose of continuing their education through the use of the center's 500-item stock of 8-mm. single-concept films, tape programs, programmed books, programmed material and film strips, records, and other miscellaneous self-instructional materials.

The center, on the ground floor of the school (room G-F-11), will be open on Thursday nights from 6:30 to 9:30 p.m. until January 18, 1973, with the exception of Thursday, December 28. The response and usage during this trial period will be factors influencing the decision to continue the service.

"The response to date has been overwhelming," said Dr. Charles T. Prigeon, assistant dean for continuing education.

This program is a cooperative and jointly financed venture of the school and the Maryland State Dental Association. No fees or reservations are required. Participants should register with the security guard at the entrance of the building and with the attendant in the center. The attendant will issue instructional items and assist the use of the audiovisual equipment, if necessary.

The dental school is also exploring the possible use of independent learning facilities at community colleges in the state, to make its self-instructional material available there for dental personnel in the area.

Each hour of study at the center is applicable for one credit by the Academy of General Dentistry. As a personal favor, the facsimuring is permitted on the circle directly in front of the school.
Continuing Education Courses—School of Dentistry—Period January to June 1973


“Surgical Endodontics,” Irving I. Abramson, D.D.S., Wednesday and Thursday, January 17 and 18


“Dental Care and Preventive Dentistry for the Handicapped Child,” Lawrence A. Fox, D.D.S., Wednesday, February 7


“Biomechanics for the Clinician,” Charles J. Burstone, D.D.S., M.S., Wednesday, February 28


“Concepts of the Preliminary Diagnostic Work-Up and Periodontal Instrumentation for Dental Hygienists,” Jo Ann I. Pepin, Friday and Saturday, March 9 and 10

“Rehabilitation of Your Dental Thinking,” Norman Horowitz, D.D.S., Wednesday, March 14


“Current Advances in Restorative Dentistry—Dental Restorative Materials and Porcelain Fused To Metal Restorations,” Friday and Saturday, April 27 and 28

Saturday: “Clinical And Research Aspects of Porcelain Fused To Metal Restorations,” Joel Goldin, D.M.D.


“Practical Pedodontics For the General Practitioner,” Donald J. Forrester, D.D.S., M.S.D., Thursday, May 3

“Practical Pedodontics For the General Practitioner,” Donald J. Forrester, D.D.S., M.S.D., Wednesday, May 9

“Basic Peridontics For the Practitioner,” Members of the Department of Periodontics, Dental School, University of Maryland, Wednesday and Thursday, May 16 and 17.

For further information, contact Dr. Charles T. Pridgeon, assistant dean for continuing education.

New Faculty Appointed

Dr. John J. Salley, dean of the dental school, has appointed DR. CHARLES J. DONNELLY, community dentistry, and DR. GEORGE KIDDER, physiology, as associate professors.

Appointed as assistant professors were DR. STEWART A. BERGMAN, oral surgery; DR. JAMES F. CRAIG, educational and instructional resources; DR. HAROLD L. CROSSLEY, pharmacology; DR. JOHN J. GOLSKI, periodontics; DR. LAWRENCE A. HASKINS, periodontics; DR. C. DANIEL OVERHOLSER, JR., oral diagnosis; DR. DAVID G. OWEN, pedodontics; DR. JON K. PARK, oral diagnosis; DR. EMILIJA RIEKSTNIECE, pathology; DR. DONALD D. TODD, oral diagnosis; and DR. BARLOW J. WAGMAN, community dentistry.

New instructors are DR. GEORGE C. ABRAHAM, restorative dentistry; DR. AMIRA H. ARAFAT, oral pathology; REBECCA L. HOWE, dental hygiene; MARILYN J. KAUFMAN, dental hygiene; DR. ROBERT E. MORRIS, restorative dentistry; DR. WERNER SEIBEL, anatomy; DR. CHARLES M. TOWNS, restorative dentistry; JULIA A. WAGNER, dental hygiene; and DR. JAMES B. WARD, restorative dentistry.

Part-time appointments include DR. FRANCIS J. SAMAH, periodontics, and DR. LEONARD RAPPORT, community dentistry, associate professors.

Part-time assistant professors include DR. GWENDOLYN F. DUNN and DR. PHILIP A. MARKIN, orthodontics.
Dental School Evaluates Progress During Last Decade

During the '72-'73 academic year the faculty and students of the dental school have been taking on the tremendously time- and energy-consuming task of self-evaluation.

The plans, objectives, and goals set at the school in 1963 when Dean John J. Salley came are now being probed to see how well they have been met, and what planning is necessary for the next decade.

Coordinating the efforts of the new goals and objectives committee are two new staff members, Myra Land, administrative assistant to the dean, and Nell Savopoulos, research analyst.

"We are trying for maximum input of the people involved with the dental school, and for constructive criticism," said Mrs. Land. Some 128 members of the faculty and 21 students are participating in the task-oriented subcommittee structure.

A "parent committee," composed of dental school and university administrators, department and division chairmen, and student representatives, meets every six weeks to hear and discuss progress reports by subcommittee chairmen.

The eleven subcommittees have been set up with the purpose of looking backward and forward in the areas of program, manpower requirements, faculty and staff development, student affairs, community affairs, research, advanced education programs, delivery systems, auxiliary education and utilization, curriculum, and space and facility needs.

Chairmen are Drs. Sue Barry, Todd Beckerman, Duane DeVore, John Hasler, Robert Nauman, Donald Olson, Errol Reese, Maurice Rodgers, Barlow Wagman, Mark Wagner, and George Zurkow.

In addition a steering committee is acting as a coordinating group for the entire study.

"Each committee is deep into its investigations, but recommendations have not yet developed," said Mrs. Land.

"A great deal of interest has been generated by this study because of its far-reaching implications," she said. Reports will be presented in June at the annual faculty conference.

Faculty Wives Initiate First Volunteer Program for School

Two dental school faculty wives, Alice Steele (Mrs. Glenn D.) and Maureen Rodgers (Mrs. Maurice G.) have organized a volunteer program at the school to help out where needed, and add a "personal touch" in the clinics.

With 62,000 patient visits a year, the dental school clinic is a "major clinical operation" in the state, said Dr. John J. Salley, dean. Dental schools, unlike hospitals, have never drawn heavily upon the services of volunteers, he said, but he thinks that the time has come.

Hoping to tap resources within the school first, namely faculty wives, Dr. Salley contacted the women by letter, and out of the responses, called upon Mrs. Steele and Mrs. Rodgers to organize a group.

The two began to phone other wives, and they now have volunteers every day at the main desk in the clinic along with women in oral diagnosis and other key offices throughout the dental school. (Continued on page 4)
Dr. Abramson to Retire

Dr. Irving L. Abramson, D.D.S., professor and head of the department of endodontics, will retire from the dental school on June 30, 1973. He will increase his private practice in Baltimore to half-time.

In his retirement, Dr. Abramson has made arrangements to study sculpture with Freda Sohn, in addition to enrolling in further courses at the Maryland Institute College of Art. His engineering knowledge previously acquired in two years at Carnegie Tech combines well with his skills in casting for application in sculpture.

He is a 1932 graduate of the Baltimore College of Dental Surgery and started teaching here as a assistant professor in oral medicine in 1954. He rose through the ranks to full professorship in the department of restorative dentistry.

Dr. Abramson was a Fulbright Professor at San Marcos University in Lima, Peru, in 1970, and has lectured abroad in Japan, Bangkok, Hong Kong, France, Italy, and Israel. He has held many posts in organized dentistry, including membership and presidency of Sigma Epichon Delta, presidency of the Baltimore City Dental Society and of the Maryland State Dental Association, and committee membership in the American Dental Association.

Dr. Abramson says there have been many changes in dental education over the years, and the system is now " geared to comprehensive dental care and community dentistry." He feels that the future of dental education lies not only in undergraduate and postgraduate teaching, but in continuing education. He says, "This is the only way we can familiarize the practitioner with dentistry's newer techniques and motivate him to use them."

Dr. Bergquist Named Periodontics Head

Dr. John J. Bergquist, associate professor of periodontology and oral biology at the University of Iowa College of Dentistry, has been named the new chairman of the dental school's department of periodontics.

Before joining the faculty of the University of Iowa in 1968, Dr. Bergquist practiced dentistry in Ottumwa, Iowa for twelve years. He spent two years in the U.S. Air Force as general dental officer and attained the rank of captain.

A native of Melrose, Iowa, he attended Loras College in Dubuque and later the University of Iowa, where he received M.S. and D.D.S. degrees and was chosen to membership in the honorary dental fraternity Omicron Kappa Upsilon and the Society of Sigma Xi. He also has done postgraduate work at the University of Minnesota, Boston University, the University of Pennsylvania, and the University of Colorado.

He has done considerable research in periodontology, including experiments on enzyme activities in attached gingiva, and has reported his findings in the Journal of Dental Research and other publications.

Dr. Bergquist is active in many professional organizations, including the American Academy of Periodontology and the American Dental Association, having served as vice president and president of the ADA's Southeastern District of Iowa and as a member of the House of Delegates for the Iowa State Meeting of the ADA from 1959 to 1963.

His wife is the former Mary Ellen Fitzgerald, and the Bergquists have six children.

The School of Dentistry has a direct line to the Baltimore Colts, in fact, two of them. Dr. I. Norton Brotman, associate clinical professor, is the team dentist, and sophomore Sam Havlik is the team's wide receiver.

Dr. Brotman, along with his partner in practice Dr. Howard L. Rothschild, assistant clinical professor at the school, has been giving the players their comprehensive oral exams in training camp for five years, in addition to taking care of any problems before and after games, and designing and fitting the custom mouth guards that the Colts wear.

Through the use of the mouth guards dental injuries are prevented, the number of broken jaws is reduced, and the effects of concussion-type injuries are lessened.

"We have to keep the man playing football while maintaining his dental health. Whatever we do, we can't interfere with his football playing," said Dr. Brotman, a Colt fan since the team came to Baltimore in 1946.

In connection with his work, Dr. Brotman and Dr. Ben Koplik of the Jets have organized the Professional Football Dentists Society, through which reports of injuries are circulated and better preventive procedures are established.

Dental Professor and Student Lead Double Lives with Baltimore Colts

On the other side of the fence, as a student and Colt, Mr. Havlik was inspired by Dr. Brotman to enter the Maryland school. The Colt #71 had prepared for dental school during his undergraduate years at Bucknell University. He attends school full time in the spring and takes one course during the season.

New, Specially Equipped Classroom Opens For Continuing Education

Practicing dentists who visit the School of Dentistry to continue their education will notice a new addition to the department of endodontics, will retire from the

John F. Hasler, chairman of the division of oral diagnosis and radiology, has been appointed assistant dean for clinical affairs. He has been with the school for four years.

Prior to his acceptance of a faculty position at Maryland, Dr. Hasler was on the staff at Indiana University School of Dentistry, from which he has earned D.D.S. and M.S. degrees.

June Week Activities Scheduled

June Week 1973 is scheduled to begin Thursday, June 24, with a reception at the downtown Holiday Inn, and will continue in full force the following Thursday, May 31, with the Omicron Kappa Upsilon Banquet at Hunt Valley Inn.

Activities on Friday, June 1, include the honors convocation, buffet luncheon, graduation exercises, and alumni golf tournament.

Saturday, June 2, will bring the annual meeting and president's reception.
Instructional TV Reaches New Levels of Sophistication at Dental School

The use of television in education has come a long way since the late '50s when "the tube" first began to be used as a teaching tool.

Instructional television (ITV) has progressed at the School of Dentistry to the point that students may check out a videocassette, a paperback-sized tape, which can be plugged into a playback unit and viewed on a color receiver.

This latest addition to the school's Independent Learning Center (ILC) places televised instruction at the fingertips of dental students. They may check out a program, stop and start it at will, or watch the entire program as many times as necessary to absorb the content.

At the present time, more than 40 programs are available and additional programs are being added daily.

The dental school has been developing the techniques of closed circuit TV ever since July, 1970, when they moved into the new building.

While students in labs observe demonstrations by television, they perform the operations prescribed by the instructor. Live or taped microscopic slides can be presented with a color camera which is attached to a microscope. The students in receiving stations may respond verbally to the professor in the studio by means of a talk-back system.

From the TV studio and control room, five programs may be transmitted simultaneously to approximately 100 monitors in the building. A fully equipped dental unit is housed in the studio for demonstrations, and a mobile science laboratory is available.

The ILC, directed by Dr. Ernest F. Moreland, consults with faculty who want to produce TV programs, and helps them with writing scripts and producing the shows. Because few faculty had had experience in television teaching, the school arranged for a course in TV production at a local university.

Hygiene Faculty on National Committees

Two faculty members of the dental hygiene department are serving on national committees of the American Dental Hygiene Association.

Barbara Vondrak, assistant professor, is chairman of the Committee on Dental Education and Joanne Pepin, assistant professor, is a member of the Committee on Community Dental Health.

Mrs. Vondrak and Patricia Stearns, chairman of the department, are regional consultants for the ADHA. They will advise the group in regard to newly developing programs.

The department of dental hygiene recently hosted the largest gathering of hygienists in the state—approximately 100 members of the Baltimore, Southern Maryland, and District of Columbia Dental Hygiene Associations.

Eight table clinic presentations were exhibited, with the central theme "Do you provide comprehensive care?"

Dental School Receives Grant For Women, Rural, Minority Students

The School of Dentistry has received $369,828 from the Robert Wood Johnson Foundation to be used for financial aid for women students, students from rural backgrounds, and those from this country's black, Indian, Mexican-American, and mainland Puerto Rican populations.

The foundation has the philosophy that a national effort to expand the number of dentists should be accompanied by an attempt to increase the number of dental graduates whose backgrounds will lead them to practice in underserved rural and inner-city communities.

The money is awarded, above a certain base amount, in proportion to each school's percentage of the total national pool of women, rural, and minority students in dental school in the 1972-73 academic year.