

MOMENTUM

Volume 2, Number 3/July 1977

News & Viewpoints
for Eastman Dental Center
Alumni & Friends

EDC

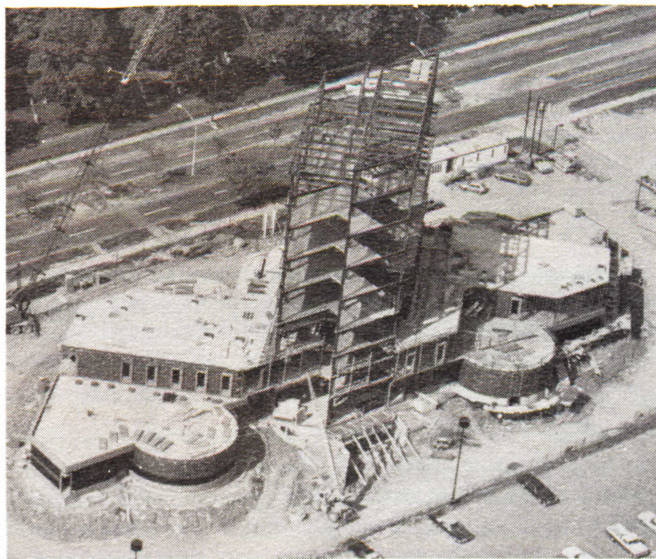
published by the Eastman Dental Center
Rochester, New York
William D. McHugh, D.D.S., Director
Jo Helfer, Editor

From The Director's Chair

The New Building

Excellent progress has been made since February when the last issue of MOMENTUM was published. This was a cold winter in Rochester but, in spite of it, a good deal of work was possible in the basement area, which was enclosed and heated.

The steel framework of the whole building is now in place and the concrete for all floors has been poured. Brick-laying is almost complete around the first floor level and should proceed smoothly from now until its expected completion in early fall. The brick looks very handsome and our architect tells us it is the best laid brickwork he has ever seen. Installation of mechanical and other services is also up to schedule and we still hope that the building will be completed by December 1977—although this date has been mentioned with a shade less conviction recently.



A plane view of work in progress on the new building, taken May 20.

The Capital Campaign continues to make steady if somewhat slow progress. Recent substantial gifts include \$100,000 from the Gleason Foundation, \$75,000 from Xerox Corporation and \$50,000 from the Davenport Hatch Foundation. A campaign among dentists in the greater Rochester area is currently in progress under the leadership of two of our Trustees, Dr. G.L.D. Burnett and Dr. F.L. Agnew, and we hope that this will yield a substantial addition to the Campaign. Plans are now being made to proceed with the Alumni phase of the Campaign in the fall of this year.

Senior Staff Appointments

Two of our most distinguished staff members will be retiring from their administrative duties this summer, but happily both will remain on staff.

Helmut Zander has been Chairman of our Department of Periodontology since its founding in 1957 and he is primarily responsible for its current eminence, and for its superb record of distinguished research and even more distinguished alumni. As would be expected by all who know him, Helmut sees his retirement from the Chairmanship as a welcome relief from the tribulations of administration—and a welcome opportunity to devote even more time to research and teaching.

Allen Brewer was also a "founding Chairman" and it is difficult to believe that we have only had a Prosthodontic Department—and Allen—since 1967. As noted elsewhere in this issue, his research was recently honored by the award of the prestigious IADR Prosthodontic Research Prize. Allen will continue to teach and to practice at the Center.

The new Chairman of Periodontology will be Alan M. Polson, who is currently Assistant Chairman. A 1968 graduate of London Hospital Dental School in London, England, Alan interned at Eastman and then took his periodontology specialty in 1972. More recently he became a Diplomate of the American Board of Periodontology.

The new Chairman of Prosthodontics will be Gerald N. Graser. Gerry received his D.D.S. from the SUNY at Buffalo Dental School in 1968; his certificate in Prosthodontics in 1972; and his EDC/UR M.S. in 1975. He has been on staff at the Center since then.

Martin E.J. Curzon, Senior Research Fellow and Acting Chairman, Department of Caries Research since 1974, will become that Department's new Chairman. Martin, a 1964 graduate of the London (England) University College Hospital Dental School, received his EDC Pedodontic Certificate and his EDC/UR M.S. in 1968; and his Ph.D. from the University of London in 1977.

Capital Campaign

The Rochester Dental Study Club, in commemoration of its golden anniversary, has donated \$1,000 to the EDC Capital Campaign. The amount represents half of the Club's treasury.

In a ceremony on the steps of the Dental Center, Dr. E. David Appelbaum, the Club's immediate past president, said, "The donation seems an appropriate gesture at the proper time. EDC has hosted the Club for fifty years. Our Board of Directors sought to honor the Center as it enters a vigorous new era of accomplishment by paying a token rent of \$20 per year for use of the facilities!"

Dr. William D. McHugh accepted the gift on behalf of the Center. He said, "We are all extremely grateful that the Rochester Study Club has shown such tangible faith in the Center. We trust that the Club will continue to meet at our new facility."

The Rochester Dental Study Club was the first open forum for continuing education in the greater Rochester area. Nearly two hundred dentists and auxiliaries now meet five nights a year in January and early February for three-hour sessions "to bring the profession of Dentistry to a higher plane by forming and maintaining study groups through which the individual dentist can increase his knowledge and broaden his views on the various technical and scientific subjects pertaining to the profession."

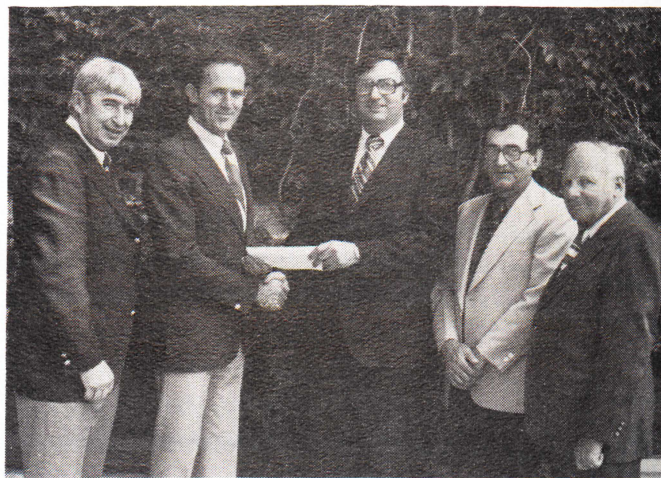
The following charming nostalgic recollections by Dr. George B. Joel are excerpted, with the author's permission, from the Club's anniversary booklet:

"I was fortunate to be a member of the group that founded Rochester Dental Study Club in 1926. The classes were small and prominent dentists headed the various classes. The only specialties were Oral Surgery, Orthodontics, and Periodontia..."

"Remember, this is before the time of compressed air. We used foot bellows, a chip air syringe and a pig for casting, and for constructing vulcanite partials and dentures.

"Our X-Ray machines were bulky and carried an unprotected high tension wire and we stood right next to the X-Ray while taking pictures. Our amalgam was mixed in a mortar and pestle and mullied by hand. We made our own novacaine from tablets and boiled distilled water. We used the same injection needles until they were dulled. The fees that our patients paid for prosthetic work then were less than our laboratory bill is today.

"We started a Dental Library and I became the librarian. Dental dealers donated many prosthetic instruments, articulators, flasks, cutting tools, etc., to start a course in laboratory prosthetics..."



An informal presentation of \$1,000 by the Rochester Dental Study Club, to the Center's Capital Campaign. From the left, Dr. J. Daniel Subtelny, Chairman of Ortho; Dr. William D. McHugh, EDC's Director; Dr. E. David Appelbaum, outgoing president of RDSC; Dr. James Brandetsas, incoming president; and Dr. Helmut Zander, Chairman of Perio at EDC.

"Looking back over the past 50 years the young Dentists today have it made. Wouldn't it be nice if you young Dentists 50 years from now would similarly recall all the changes, discoveries and improvements?..."

IN MEMORIAM

Thomas M. Bonnar, a member of the Center's Board of Trustees since 1968, died unexpectedly at his home on Thursday, May 5. Mr. Bonnar, an assistant vice president and director, administrative services, of Eastman Kodak Company, was chairperson of EDC's New Building Committee.

Dr. McHugh issued the following memorial statement:

"It was with a very deep sense of loss that I and other members of the staff and Trustees of the Eastman Dental Center learned of the sudden, tragic and untimely death of Thomas M. Bonnar. Tom was clearly a major figure in the Eastman Kodak Company but his impact on this community and on the lives of its people ranged far beyond. He had a special interest in health care and was a very active trustee of both Eastman Dental Center and The Genesee Hospital. To these and other community programs, he gave of his time and talents in generous measure, and played a major role in their development.

"In our journey through life, each of us comes to know a few people who earn our wholehearted admiration and affection: Tom Bonnar was such a man. He will be sorely missed."

Close contact with an Air Force orthodontist spurred his interest in ortho. He feels fortunate to be at EDC because "it is the best program in the country." He is impressed by the Department's biological orientation to the study of orthodontics. He says, "We learn why we are doing what we are doing, not just how" and finds another great strength of the program is that "it provides clinical training and excellent clinically-related research."

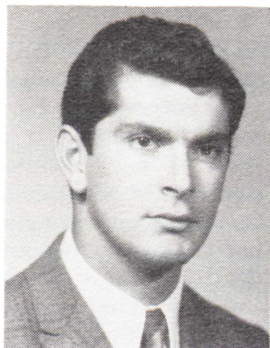
His wife, Linda, is a nurse in the Renal Dialysis Unit at Genesee Hospital. His hobbies are running and scenic photography.

Recent Thesis

The Use of Saliva Substitutes in the Development of In Vitro Plaque

by Flavio R. Pinto

A holder of a D.D.S. from the Universidad de San Carlos in his native Guatemala, Dr. Pinto spent two years in the Department of Pedodontics and one year doing caries research on artificial plaque for his Master's, before returning to his homeland. He became a dentist because he saw a great need for pedodontists in Guatemala. Dr. Pinto was urged to come to Eastman by the dean of his University, who had been at the Dental Center. Dr. Pinto played semi-pro baseball in Latin America and the United States. A center fielder, he turned down offers from the Minnesota Twins, the Pirates, and the Mets! He has recently been appointed Chairman of the Department of Pedodontics at Guatemala's Universidad de San Carlos.



His thesis reports an effort to produce an artificial substitute for saliva that will have similar biological and physical characteristics to those supplied by natural saliva or at least be superior to the nutrient fluids used in other *in vitro* experiments on plaque formation and caries production. The approach was to examine the saliva substitutes used by other investigators and subject one or two of them to tests in the Orofax; and to determine by a literature review the probable composition of stimulated whole saliva and prepare from laboratory chemicals a mixture of comparable composition. To measure the success of these efforts, compari-

sons were made of the percentage distribution of bacterial types in plaques produced with stimulated whole saliva and those obtained after the use of saliva substitutes.

The literature concerning the systems and fluids used in previous experiments on the production of *in vitro* plaque and caries, and that dealing with the composition of human saliva and the formation and bacterial make up of dental plaques was reviewed.

Artificial plaque was developed by dripping natural saliva on enamel blocks placed into the Orofax system and the variations in bacterial composition were determined in day to day counts of plaque samples.

Four saliva substitutes were tested. Substitute #1 was a nutrient broth used by Jordan and Keyes (1966) and the others were mixtures prepared from laboratory chemicals to be similar to the composition of whole stimulated saliva as indicated by our literature reviews.

To measure the success of our efforts, comparisons were made of the percentage distribution of bacterial types in plaques produced with whole stimulated saliva with those obtained after the use of saliva substitutes and also with some *in vivo* plaques developed in the saliva donors' mouths.

Substitute #3 and Substitute #4 (Substitute #3 plus Lyzozyme) gave the most satisfactory results, in minimizing variations from the bacterial composition of plaque maintained and grown in saliva.

It is felt that the results obtained are encouraging, and the *in vitro* Orofax system has been made more useful with the development of a saliva substitute that will maintain plaques with approximate bacterial counts found in plaques developed with natural saliva.

Alumni News

Dr. J.K. Ellwood, GenDen '55, writes, "Recently I published a book of old photographs of Skipton which is an ancient market town in the Yorkshire Dales. I also own a 1921 Rolls Royce (Freestone and Webb body) and a steam traction engine. Someday I hope to revisit the USA to see one of the steam shows out in the middle West." Dr. Ellwood has been in General Dental Practice in Skipton-in-Craven, North Yorkshire, since 1959.

Dr. Alicia Veliz L., Pedo '55, is now Chairman of the Department of Pedodontics, at San Marcos University Dental School, in Lima, Peru.

Dr. Colin R. Watson, GenDen '55, pens a newsy letter: "My wife, Betty M. Watson, B.D.S., and I were

ORTHO—AN OVERVIEW

Dr. J. Daniel Subtelny, Chairman of the Center's Department of Orthodontics since 1955, is a gracious and friendly man. A shock of iron-gray hair frames his youthfully unlined face. He talks of his staff and students with gentle excitement and affectionate delight.

"We have a well-balanced and dedicated Department, the finest in the country and the world," he says. "Eight of our 12-member teaching staff travel long distances, from Ithaca, Syracuse, Buffalo, and Albany, to teach at the Center."

Also on the staff are three speech pathologists, Ph.D.'s who work with people with cleft palate and congenital anomalies.

"The support staff, our dental assistant and secretary, also really help in our activities," Dr. Subtelny adds. "With the tremendous load they have taken on, they have given us the opportunity to put additional budget funds into teaching."

Six residents enter the two-year program annually. The program uses the seminar method almost exclusively. The staff demands effort, reading, and interpretation. All residents receiving ortho certificates must do research and write a paper on their project.

According to Dr. Subtelny, "Our residents are thinking individuals with investigative minds that need stimulation. Our aim is to train biological orthodontists, who are clinically competent; thinking orthodontists, not 'cookbook' automatons."

The Department subscribes to the practice of teaching one technique, the edgewise technique, rather than many. Dr. Subtelny sees technique as "a means to an end; something that can be adapted to all new information and innovations."

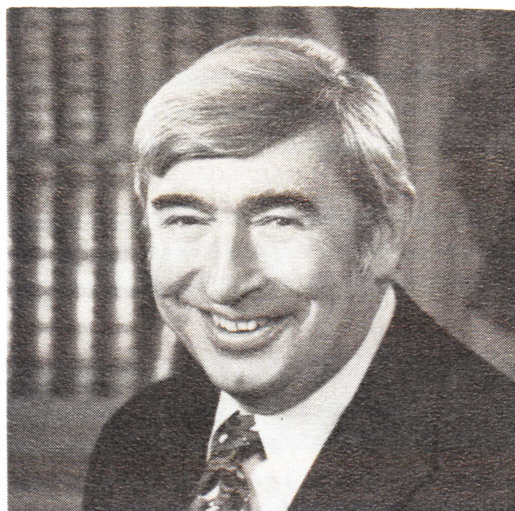
Ortho's cohesiveness is strengthened by an annual staff retreat. The teaching program is discussed, suggestions exchanged, and all attending have the opportunity to relax together socially. Last year's retreat was held in Ithaca in November. There is also an active Alumni Association whose next biennial reunion is scheduled for February 1978, in Scottsdale, Arizona.

The feelings of warmth and dedication about the Department are reinforced in talking to students, present and past.

Dr. J. Roberto Pineda, Ortho '76, visited EDC from El Salvador recently. He is in private practice in San Salvador and also works there at Children's Hospital with congenital anomalies and cleft palate. From a year's perspective, he says, "I really enjoyed the Center. It was a truly great experience, and I miss Rochester and the people here. I came to EDC because I knew it was one of the best places for ortho training in the world. I got good training here, and all the techniques I learned are now working!"

Dr. Pineda is a squash player, a deep sea fisherman, and a hunter of bear and pigeons. He enjoys water skiing and spends as much time as he can on the Pacific beaches with his wife and 18 month-old son, who was born in Rochester.

Dr. Ronald Ramsay received his Certificate last month. A native of Barbados, British West Indies, he



Dr. J. Daniel Subtelny

trained at the University of Bristol in England. A gray streak distinguishes his curly, black beard.

He became a dentist because he likes people and likes to work with his hands and felt he could do "something to reduce the general anxiety associated with dentistry." His interest in Ortho was whetted in the final year of his dental school career. He felt it offered "a wider scope from the point of view of treatment planning and the handling of a variety of problems."

The Center was recommended to Dr. Ramsay by one of Dr. Subtelny's former teachers as having a "well-balanced, structured program." Dr. Ramsay says he has very positive feelings about his training here, that it has been "a very valuable experience."

He mentions the "warmth of the Department." He says, "Emphasis is placed on working together as a team. I have learned that you don't need severe competition to stimulate high-quality work. It can be brought about by working as a team. The Department is not 'exclusive,' but rather stresses the positive forces of dentistry as a whole, as witnessed by courses in cooperation with other departments."

He just returned to Barbados where he feels he will be "fulfilling a need." There are now only two part-time orthodontists in the Eastern Caribbean region to treat a population of 250,000 people. He hopes that eventually a dental faculty will be formed at the University of the West Indies. He would like to think he could "assist in teaching there."

He and his wife, a native of Colombia, South America, expect their first child in November. His hobbies "mostly revolve around the sea: sailing, swimming, and water skiing."

Dr. Edward Sommers, who has just completed his first year in the Ortho program, was "always interested in the health professions, and through friends in dental school became interested in what they were studying." An open-faced, pleasant young man, he received his D.M.D. from Pittsburgh and served as a dentist in the Air Force in California, Korea, and Plattsburgh, New York, as a basic fulfillment of a four-year commitment to the ROTC.

at Eastman 54/55. We returned to Australia, went into private practice here in Canberra, the national capitol, although Betty now stays home full time with two children, Andrew, 14, and Karen, 10...We are closely situated to the School of Music; the Australian National University, the Commonwealth Scientific and Industrial Research Organization. Practice here is fascinating—with patients from government departments, the diplomatic corps and the academic fields. One is constantly being fed news from all regions of the world. It makes for a slower 'production line' but for a much more interesting life! We find MOMENTUM interesting and are glad to note names from our days at the Clinic. Would indeed like to see the completed new Dental Center. Dentally, Betty and I keep up with new developments by attending conventions periodically..." Colin has a "private pilot's license...(has) flown over most of Australia, even doing some dental work in the Centre and outback. Besides dentistry, (he) has been working in the environmental management field...advised present government in some areas of environmental policy...studying for postgraduate diploma in public administration." Betty "for some years worked in government school dental service putting to good use the specialized training received at Rochester."

Dr. Michael C. McCann, Pedo '58, is now associate professor and Clinic Director C&D at UCLA Medical Center. His new method of behavior modification for fearful children will be published in a forthcoming issue of the Journal of Dentistry.

Dr. Margaret Craig Hamilton Grundy, Pedo '62, reports she now has two children and works half-time in the Department of Children's Dentistry and Orthodontics at the University of Birmingham Dental School. The book, "Pathology for Dental Students," of which she is a co-author, is now in its third edition.

Dr. Merle A. Frankel, Pedo '64, was promoted to assistant clinical professor of pedodontics at Case Western Reserve University, and was elected President of the Academy of Dentistry for the Handicapped.

Dr. Brian Clarkson, GenDen '68, who received his Ph.D. from the University of London in 1976, is now assistant professor in the Department of Pedodontics at the University of Iowa College of Dentistry.

We enjoy your notes! Please continue to let us know your new address/new position/new practice/new professional or civic honors/new books/other items of interest to fellow alumni/or features you would like to see in coming issues. Deadline for the next issue is August 31.

Name _____ Dept. _____ Year _____

New Home Address _____

New Business Address _____ New Title or Position _____

Other News _____

Please cut out, fold, staple or tape, stamp, and drop in the mail box. Thanks!

Stamp

MOMENTUM
Eastman Dental Center
800 Main Street East
Rochester, New York 14603