

MOMENTUM

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News & Viewpoints
for Eastman Dental Center
Alumni & Friends

EDC

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William D. McHugh, D.D.S., Director
Jo Helfer, Editor

From The Director's Chair

THE CAPITAL CAMPAIGN

During the last six months the Board of Trustees and staff have worked to infuse the capital campaign with renewed energy. I am pleased to be able to tell you that the campaign is again proceeding with spirit.

The campaign is now at 77% of goal. While we realize we must continue to work hard to realize our goal or, more happily, to surpass it, we are gratified by a number of things that have happened since I last reported to you.

•An anonymous benefactor donated an \$80,000 deferred annuity trust.

•In the late summer and early fall, chief executive officers of major local companies were invited to a series of lunches and tours of the new building. The companies these people represented had either not yet contributed to the campaign, or had not contributed at a level the Board thought appropriate. Before the visit, none of them fully realized the scope of the Center's programs and activities. They were uniformly impressed with the Center, its staff and students. Several former contributors have extended their pledges and some corporations are now supporters of EDC's fund drive. More lunchtime tours are planned.

•An alumnus of our perio program, Dr. Andrejs Baumhammers, M.S. '65, has asked dentists who enroll in his continuing education classes to contribute to the Center in lieu of paying tuition. The campaign has received a number of contributions in honor of Andy.

•J. Wallace Ely, a twenty-year trustee and former president of the Board, was the first chairman of EDC's



The general dentistry rotunda.

Capital Campaign...

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capital campaign. In October, his friends and associates joined in a testimonial to honor him "for his many years of service to the Rochester corporate and philanthropic communities." In particular, he was honored for guidance in the development of Eastman Dental Center. The testimonial ceremony started at the Center with cocktails and a tour of the facility. The 200 guests then adjourned to the Country Club of Rochester for dinner. The nearly \$16,000 proceeds from the Ely Testimonial was generously donated to the capital campaign.

Alumni News

ERNEST NEWBRUN, M.S. '57, professor of oral biology in the department of oral medicine and hospital dentistry at the University of California (San Francisco), "spent six months sabbatical leave at the Institute of Dental Research in Sydney." While in Australia, he visited JOHN THONARD (Intern '54, Ph.D. '60), dean of the faculty of dentistry at the University of Adelaide and GEORGE DAVIES, who spent about a year at EDC in the mid-fifties, and now is deputy vice-chancellor of the University of Queensland. He also "lectured to dental societies in Singapore and Hong Kong and visited the University of Osaka and Tohoku in Japan before returning home."

ALBERT BORKENT, Intern '58, is a sessional instructor in the department of operative dentistry of the Faculty of Dentistry, University of Alberta, in Edmonton.

HANS GRAF, Perio '62, M.S. '63, visited the Center in October. He saw the new building for the first time and says that although "the physical arrangements have changed, the people inside are the same. That's good!" He was delighted that the "perio gang, Helmut, Gerry and Barbara, are keeping up their spirits." Graf was here

to consult with Basil Bibby. He hopes to spend some time at the Center next year when he will be on sabbatical leave from the University of Bern (Switzerland), where he is chairman of the department of periodontics and administrative director of the School of Dentistry.

GEOFFREY H. SPERBER, M.S. '62, writes the "third edition of 'Craniofacial Embryology' will be published by John Wright & Sons, Bristol, England, early in 1980" and



In December, Wallace Ely asked the Board to accept his resignation as chairman of the campaign. Louis A. Langie, Jr., president and chief executive officer of Lincoln First Bank, N.A.,—Rochester Division, has been named chairman. Mr. Ely will continue as campaign adviser. In announcing the change, Dr. Bryant W. Rossiter, president of EDC's Board, said: "It is with genuine reluctance that I have accepted Wallace Ely's decision to relinquish leadership of the Center's campaign. His efforts have been distinguished and inspiring. I am grateful that Louis Langie has agreed to chair the campaign in its final phase. He is vigorous and innovative and will lead the campaign to its goal."

that he will be "visiting research associate, palaeoanthropology research group, University of Witwatersrand, Johannesburg, South Africa, during January and February 1980."

TED DI SANTIS, Pedo '68, assistant clinical professor at Case Western Reserve University School of Dentistry, "recently became a diplomate of the American Board of Pedodontics."

JEFFREY P. FEINGOLD, GenDen '72, who practices perio in Hallandale, Florida, has been "appointed co-chairman of the department of periodontics at the Dade County Dental Research Clinic in Miami, Florida... reappointed regional chairman of Tulane University's alumni admissions committee... (and) also presented a paper at the Florida Society of Periodontology in Tampa."

ZIA SHEY (formerly Sheykholeslam), Pedo '72, is now a professor and acting chairman of the department of pedodontics of the New Jersey School of Medicine and Dentistry, has been certified as a diplomate of the American Board of Pedodontics and is the father of Cyrus Evan, born November 6, 1978.

ANNA LENA HALLONSTEN, GenDen '73, senior consultant at the Institute for Postgraduate Dental Education, Jonkoping, Sweden, was at EDC in the fall after she presented a paper at the ADA Dallas meeting. She reported on "nitrous oxide scavenging in the dental office." The paper aroused considerable interest, particularly on the part of a manufacturer of face masks, who invited her to visit his Buffalo headquarters. "And," she wrote in a letter to Stan Handelman, chairman of GenDen, "for me it all started in Rochester and the course in relative analgesia given by Dr. Iranpour." BEJAN IRANPOUR, M.S. '64, is senior clinical associate and consultant in oral surgery at EDC and chief of the department of dentistry at The Genesee Hospital.

META SCHOONHEIM-KLEIN, GenDen '73, writes from Amstelveen, Holland, that she still works in the "pedodontic department of the Free University in Amsterdam" and that she sometimes helps her husband, Bas, in his veterinarian practice, ("he has a cavitron!") and most importantly that they have a son, Guido Rutger, born October 14, 1979.

RICHARD B. JANNEY, Ortho '75, in practice in Massachusetts, has a daughter, Elizabeth Brooks, born September 18, 1979.

MAHMOUD H. ASHRAFI, Pedo '78, has been appointed director of graduate pedodontics at the Marquette University School of Dentistry.

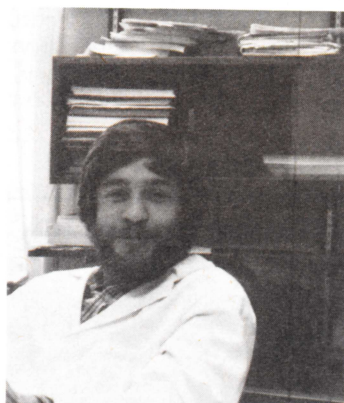
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Recent Theses

Cyril Meyerowitz was granted a dental degree from the University of Witwatersrand and then earned an EDC certificate in general dentistry in 1974. He now holds a joint appointment as clinical instructor at EDC and assistant professor of clinical dentistry at UR.

A feature on Cyril appears on page 5 of this issue.

The research which formed the basis of Cyril's M.S. thesis was carried out at EDC under the supervision of Dr. Martin E.J. Curzon.



STRONTIUM AND DENTAL CARIES IN THE ALBINO RAT

by
Cyril Meyerowitz

This study was undertaken to test the effects of strontium and fluoride on dental caries in Sprague-Dawley rats. Three experiments were performed designated as pre-eruptive, post-eruptive and pre- and post-eruptive with reference to the time of administration of strontium and fluoride. In the pre-eruptive and pre- and post-eruptive experiments rat pups were fed strontium, by esophageal intubation, in concentration of 0.0, 2.5, 5.0 and 10.0 μg per 10 g body weight per day, with or without fluoride at 1.0 μg per 10 g body weight per day, from age 3 to 17 days. The animals in the pre-eruptive experiment then received distilled deionized water. Those in the pre- and post-eruptive experiment were given supplement of 25, 50 and 100 mg Sr/1 with or without 10 mg F/1 in their drinking water. In the post-eruptive experiment strontium concentrations of 50, 100 and 150 mg/1 with and without fluoride at 10 mg/1, was given via the drinking water to rats from age 18 days to sacrifice. All animals were fed a cariogenic diet (MIT 200) *ad libitum* and sacrificed at age 56 days. Caries was evaluated in the rat molars and strontium concentrations in rat surface enamel were assayed for.

There was a linear relationship between the concentration of strontium in the drinking water and surface enamel when strontium was given pre-eruptively, post-eruptively, or pre- and post-eruptively. The highest mean enamel strontium concentrations were found in the pre- and post-eruptive experiment. These were significantly higher than those of the pre-eruptive experiment, implying a post-eruptive uptake of strontium. The groups receiving 100 mg Sr/1 and 10 mg F/1 pre-eruptively, or post-eruptively, had significantly greater uptakes of strontium than those receiving 100 mg Sr/1 alone. The implication was that fluoride increased the uptake of

strontium by enamel in these groups. The post-eruptive administration of strontium was associated with negative correlations between surface strontium concentrations in enamel and bucco-lingual caries, (L) and (E). These correlations were not statistically significant but the small numbers of animals in each group could account for this.

The pre-eruptive administration of 2.5 μg Sr per 10 g body weight per day with or without 1.0 μg per 10 g body weight per day was associated with statistically significant decreases in sulcal caries. When the supplements were continued through the post-eruptive period, the groups receiving 25 or 100 mg Sr/1 had significant reductions in caries which were enhanced by the addition of 10 mg F/1. Those receiving supplements of strontium and fluoride, only during the post-eruptive period, had significant reductions in bucco-lingual caries when given 50 mg Sr/1. The addition of 10 mg F/1 to this concentration produced the lowest caries scores in the post-eruptive experiment. These scores were significantly lower than those in the group receiving 10 mg F/1 alone, implying a synergistic interaction between strontium and fluoride on caries.

Gary Rogoff received his bachelor's from the University of Rochester, his D.D.S. from New York University College of Dentistry and his prosthodontic certificate from EDC in 1974. While working on his Master's, he had a combined appointment at the Center as clinical assistant in Gen-Den and clinical assistant and



research fellow in Prosthodontics. He is now assistant professor of prosthodontics at Tufts University School of Dental Medicine. His father and brother are both dentists.

Gary's hobbies include skiing and photography. Since he and his wife, Sue Bricker, have moved to the Bay State, they are enjoying their Boston Ballet and Symphony subscriptions, trips to the Quincy Market and Museum of Fine Arts and rides down the Charles in swan boats. Sue, a writer and publicist, did public relations for EDC for several years.

Gary did his research for this thesis at EDC under the supervision of Dr. W.D. McHugh.

THE RELATIONSHIP OF ENDOGENOUS PLASMA ESTROGENS TO THE MATURATION OF HUMAN FEMALE BUCCAL EPITHELIUM

by

Gary Stuart Rogoff

The epithelium lining the oral cavity displays great variability in its reaction to functional stress, and this can cause substantial clinical problems. Atrophic or immature epithelium is more easily traumatized than normal epithelium. Since estrogens have been shown to have a direct effect on the thickness and degree of maturity of vaginal epithelium, it has been suggested by clinicians that these steroid hormones have a similar effect on oral epithelium.

This investigation was designed to correlate the degree of maturity of buccal epithelium with levels of endogenous plasma estrogens. Smear preparations were collected three times per week from the mouths of 57 normal females for at least three menstrual cycles. The subjects included

those taking oral contraceptives as well as those not taking them. After fixation and staining, the smear preparations were examined microscopically and cell body and nucleus outlines traced with a camera lucida. A planimeter was then used to measure cell and nucleus surface areas as a sensitive indicator of epithelial maturity.

Blood was collected weekly from most of the subjects, and the plasma of the noncontraceptive group was analysed by radioimmunoassay for levels of estradiol/estrone.

Planimetric measurements were made of a total sample of 86,250 buccal epithelial cells. The mean cellular area was $2192 \mu^2$. The mean nuclear area was $54 \mu^2$. The mean N/C area ratio was 0.027.

Results demonstrated no correlation between plasma estrogen levels and degree of maturity of the buccal epithelium. There was no evidence of periodic changes in buccal epithelial maturity corresponding with the menstrual cycle, and the use of oral contraceptives by one group of subjects did not significantly influence the data.

"I am greatly honored to be the recipient of the fellowship and hope that I will be able to contribute to the betterment of the department and of Eastman Dental Center."

Jerold Feldman is a graduate of the New York University School of Dentistry.

AADR ROCHESTER REUNION

All alumni are cordially invited to relax and renew friendships at the EDC/UR Alumni Reunion at the annual meeting of the American Association for Dental Research in Los Angeles, California.

Place: San Pedro Room

Hotel Bonaventure

When: Thursday, March 20, 1980

6:30 to 8 p.m.

Bill Hughes

Reunion News

June will be a busy month for alumni reunions! Both Ortho and Prosthodontics are having gatherings then.

Ortho

The Eastman Orthodontic Alumni Association reunion will be held in Rochester June 7 to 10. The Eastman Dental Center will host an opening cocktail party and tour of the building on Saturday evening, June 7. Local arrangements chairman is Bart Levenson.

Terry Root, professor of clinical orthodontics at the University of Southern California and past president of the Charles H. Tweed Foundation, will be guest speaker.

All alumni who would like to display three case reports on patients completed during the last two years are asked to write to program chairman, Eric Loberg, 10921 Wilshire Boulevard, Suite 1203, Westwood, California 90021.

Prosthodontics

The Prosthodontics reunion will be held at EDC June 6, right on the heels of the June 5 second annual Allen A. Brewer Upstate New York Prosthodontic Conference. This year's topic is "Advances in Prosthodontics: Problem Solving." The clinicians will be Bill Pruden, Bob DeFranco and department chairman Gerry Graser. The conference is again open to all dentists, "especially those in the Syracuse, Rochester, Buffalo, Toronto corridor," according to Jack Oster, Prosthodontics '70, president of the Eastman Prosthodontic Alumni Association.

At last year's alumni meeting a fund to assist the prosthodontic department and to provide assistance for deserving students was established. Allen Brewer graciously offered to match funds contributed by alumni. The awards committee voted the first fellowship of \$1,500 to Dr. Jerold A. Feldman, whose letter of gratitude reads:

"I would like to extend my sincerest appreciation for your selecting me to receive the Allen A. Brewer Prosthodontic Fellowship for the academic year 1979-80.

"The award has been a great aid in helping me to meet some of the financial obligations incurred during my graduate studies.

Staff News



Sic Transit...

Carl Volkmuth, who started working at the Center on June 5, 1956, retired at the end of November. His many friends attended a party held in the Ely Room. He was given a pewter mug inscribed with EDC and his dates of service.

Carl's title was maintenance supervisor, a name that hardly describes a man who is master of many trades. Carl is toying with the idea of writing a book, "Echoes of 820 East Main, or, Life at the Dorm."

Staff news...

Continued from page 4

The Dentist and the Tiger

Cyril Meyerowitz, GenDen '74, M.S. '79, is a native of Johannesburg. If South Africa brings to mind a picture of Cyril treating a tender-tusked elephant who roamed in from the veld and, like Androcles's lion, remained forever grateful, forget it! It was in Rochester, New York, that Cyril met his most uncommon patient, a 400-pound Siberian tiger named Peter. Peter lives in the Seneca Park Zoo.

The Animal Medicine Laboratory at the University of

Rochester has a contract with the zoo to vet its animals. In April, the zoo's curator phoned the lab and asked for "someone to give a hand with a tiger" with a fistula on the side of his face "that might be of dental origin."

Cyril was "somewhat apprehensive" but "very excited" to help with the tiger.

Peter was tranquilized and intubated. Cyril found that the tiger's problem was "indeed of dental origin. He had a fractured molar. I extracted it, cleaned out the fistula area and sewed it up."

Cyril, his wife and children go to the zoo "fairly often to check Peter out." He says, "It was a rare opportunity. I could actually sit there and touch him. He is gorgeous, with a beautiful, soft skin, like a house cat's."

Alumni News...

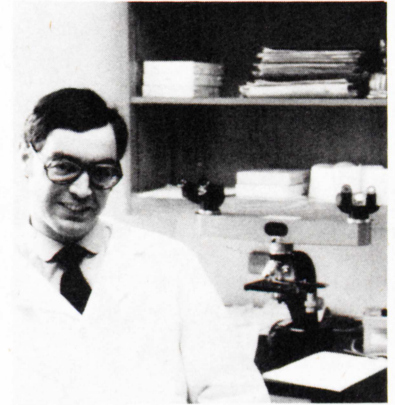
Continued from page 2

TERRY BLANK, GenDen '78, "will be on the 1980 Winter Olympic dental staff in Lake Placid. If anyone is going to be up there, give me a call and stop in to say hello!"

PATRICIA TARREN, Pedo '78, who is married to Bill Capewell, writes from Minneapolis where she is assistant professor of pediatric dentistry at the University of Minneapolis, that "on October 2, our son Alistair John arrived—and he's doing really well in our extremely cold winter!"

ADAN CASASA, Ortho '79, is professor of orthodontics for pedodontic students at Mexican D.I.F. Children's Hospital in Mexico City.

MICHEL PER-
RIER, GenDen '78,
who is now in pri-
vate practice in
Geneva, Switzer-
land, and also
teaches part-time
at the University of
Geneva, was here
in October and says
returning is "in a
way a little bit like
being back home."
He enjoyed seeing
old friends. During
his year at EDC, he
did some work with
Alan Polson on squirrel monkeys and was here completing
analysis of his research.



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