

MOMENTUM

Volume 14, Number 4

Fall 1989

News & Viewpoints for Eastman Dental Center Alumni & Friends

Smilemobile is four gifts closer to goal

Eastman Dental Center's Smilemobile, a mobile dental unit that travels to elementary schools and day care centers in Rochester, has received four grants from local businesses and service organizations.

Radio station WDKX-FM, Local 1170 Communications Workers of America (CWA), Rochester Teachers Association, and Hickey-Freeman, Inc., all made gifts earmarked for the purchase of a second Smilemobile, bringing the amount of gifts received to more than \$132,000. Total cost of the project is \$175,000.

"This has truly been a community-wide effort," said Dr. Ronald Billings, Smilemobile director and the Center's associate director for clinical affairs. "Approximately 15 local foundations, businesses, service organizations, unions, and fraternal groups have responded positively to our case for a second Smilemobile to treat kids who are among those in need of care." Additional funding was also provided through individual gifts from the Center's 1988-1989 Annual Giving Campaign.

The Center's Smilemobile program began service in 1970 with one trailer. The original unit is still used and will be joined by a second customized trailer by September 1990.

The program provides comprehensive dental care to more than 1200 children ages 2-12. In 1989-1990, the Smilemobile visits five schools and seven day care centers.

To find out more about making a gift to the Smilemobile, contact Susan D. Smith, Director of Development & Communications at (716) 275-4534.

Elaine P. Wilson heads '89-'90 Annual Giving

Eastman Dental Center kicked off its Annual Giving Campaign with EDC Board of Trustees Vice-President Elaine P. Wilson at the helm.

"It is with great pleasure that I announce Mrs. Wilson as Annual Giving chairman for this Campaign," said G. Robert Witmer, Jr., president of the Board. "The 1989-1990 Campaign is special because it falls during the Center's 75th Anniversary year," said Witmer, "and we have high hopes that we will reach our goal of \$120,000."

Mrs. Wilson has played a major role in many fund-raising efforts, including the Eastman School of Music's new Sibley Library, the Rochester Museum and Science Center's newest exhibition hall and associated facilities, and the Harley School's Wilson Center for the Arts.

A member of EDC's Board of Trustees since 1977, Mrs. Wilson has also been actively involved in St. Thomas' Episcopal Church, the Memorial Art Gallery, Highland Hospital, St. John Fisher College, Keuka College, the Rochester Philharmonic, Harvard University's School of Dental Medicine, and Endicott College (her alma mater).

Eastman Dental Center's Annual Giving Campaign is the Center's major fund-raising

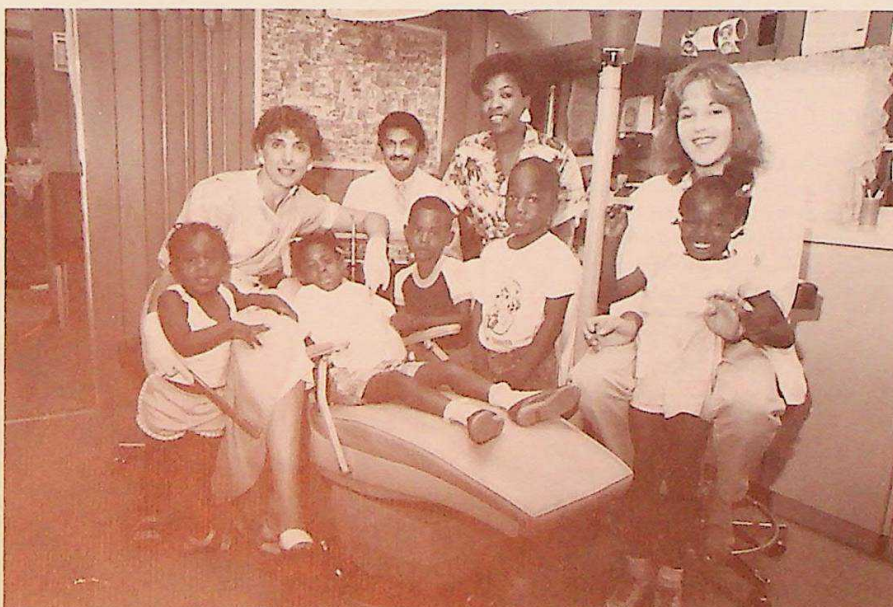


Elaine P. Wilson

photo by Roger B. Smith

program. Nearly \$500,000 in cash, pledges, and in-kind gifts have been donated since its inception in 1982.

Gifts received during the Campaign are used to support a variety of institutional or departmental projects and programs.



The Smilemobile staff with some of its patients

photo by George S. Morgan

To alumni and former faculty attending the IADR/AADR Annual Session in Cincinnati —

You are cordially invited to the
Eastman Dental Center/
University of Rochester Reception

Thursday, March 15, 1990
6:30 - 8:00 p.m.

Presidential Ballroom I
Westin Hotel
Cincinnati

Calendar

December, 1989

Atrium Gallery. Acrylic paintings by Carol Acquilano. Watercolors and fiber wallhangings by Judith Stein. Through January 17.

January, 1990

Atrium Gallery. "George Eastman: The Gift of Hope and Health" and acrylic paintings by Louis Lanzi and Mary Pat O'Brien. Opening reception January 21, 2:00 - 4:00 p.m. On display through March 8.

February, 1990

First EDC Phonathon. To volunteer, contact Janice Kelso Langkams (716) 275-1143.

15-Annual Winter Meeting of the Rochester Section, AADR. 9:00 a.m. - 5:00 p.m. Buonocore and Bibby Awards Competition. Evening social activities. Contact: S.A. Mundorff-Shrestha (716) 275-5020.

March 15, 1990

EDC Alumni Reception at IADR Meeting, Cincinnati. Westin Hotel, Presidential Ballroom # 1, 6:30-8:00 p.m.

June 7, 1990

12th Annual Allen A. Brewer Upstate New York Prosthodontic Conference. Contact: Maxine Manjos (716) 275-5064.

EDC

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William D. McHugh, D.D.S., Director

Susan D. Smith, Director of Development and Communications

Maxine Manjos, Editor



photo by George S. Morgan

Jeanette M. Chandler, R.N., J.D.

Chandler receives clinical affairs appointment

Jeanette M. Chandler, R.N., J.D., has been appointed quality assurance program coordinator at EDC. In this newly created position in the Office for Clinical Affairs, she is responsible for designing, implementing and evaluating quality assurance programs for the Dental Center.

"Ms. Chandler brings expert knowledge of both quality assurance and risk management to Eastman Dental Center," stated Dr. Ron Billings, associate director for clinical affairs. "Her work in both nursing and law are invaluable assets to our quality assurance program."

Chandler's diverse background includes fifteen years in nursing, with extensive experience in a university-based hospital setting. She has worked as a medical-legal lecturer and as the assistant producer of "The Legal Connection," a Cleveland-based legal affairs television program. She was an editor of the *Journal of Law and Health*, a publication of Cleveland State University.

After obtaining undergraduate degrees in psychology and nursing from Case Western Reserve University, Chandler received a J.D. from Cleveland State University, College of Law, in 1987.



photo by George S. Morgan

Dr. Quintin B. Bullock (l.) (postdoctoral student) and Dr. Lonny Gatlin (r.) (clinical instructor), minority recruiters from the Department of General Dentistry, preview slides used in their presentation of EDC to dental students at two campuses of the University of Texas (Houston and San Antonio). The dentists are among nine recruiters who informed students in the East, Midwest, South and Southwest about postgraduate dental programs available in Rochester. A federal grant obtained by Dr. Stanley L. Handelman (chairman, Department of General Dentistry) supports minority recruitment within the Associated General Dentistry Training Programs of Rochester.



Wasn't that a time?

When we turn 75, 'twill be a very good year!

We can hardly wait to have all our alumni, faculty, staff, students, and many friends come together to participate in the activities planned in honor of our 75th Anniversary.

There's something for everyone on our schedule of events, from alumni awards to a scholarly symposium, to social events and tours. The festivities commence on September 13, 1990 and run through September 15. Mark your calendars now!

All events, unless otherwise noted, will take place at the Holiday Inn Rochester South (Holidome) or Eastman Dental Center.

In a nutshell, here's what's planned:

THURSDAY, SEPTEMBER 13, 1990

Registration (Holidome)
 "Prevention Revisited" Symposium and Luncheon
 Reception and Tours (Eastman Dental Center)

Prevention revisited: a special symposium

In honor of the Center's 75th Anniversary, a major portion of the three-day celebration will be given over to an important program covering selected issues in prevention.

The program begins with a full day of presentations on Thursday, September 13. There is ample opportunity for reactions to presentations by a panel of experts and for audience discussion.

The "Prevention Revisited" scheduled for Thursday includes the following:

- Welcome and Introductory Remarks
- Risk Assessment for Oral Diseases
- Diagnosis of Periodontal Disease
- Caries Prevention/Fluoride
- Dental Materials Related to Prevention
- TMJ Disorders
- Geriatric and Special Patients
- Summary Presentation

Immediately following the Thursday program, all symposium presenters and attendees will adjourn to EDC's Atrium for a buffet reception and tours of the Center.

On Friday morning, September 14, the second portion of the symposium features a major address by a guest speaker, and poster viewing and discussion. The symposium concludes at 12:15 p.m. on Friday.



Where do I sign up?

In January, you'll receive all the necessary registration materials for the 75th Anniversary — fees for events, travel information, hotel accommodation reservation forms, etc.

In response to your prompt reservation, you'll receive a confirmation from EDC, guaranteeing your spot (and your spouse's, too) at Anniversary events.

Watch for the special EDC 75th Anniversary brochure, coming to the mailbox near you!

FRIDAY, SEPTEMBER 14, 1990

Registration (Holidome)
Keynote Address by Dr. James B. Wyngaarden
Poster Presentations for "Prevention Revisited"
Nostalgia Luncheon
Table Clinics and Poster Sessions (Eastman Dental Center)
Black-Tie Dinner and Alumni Awards Presentation (Genesee Valley Club)

EDC is proud to present...

On Friday morning, EDC will host a major address by Dr. James B. Wyngaarden, director of the National Institutes of Health, 1982-1989. All EDC alumni and spouses, faculty, staff, and students, symposium participants, and other interested individuals are invited to attend this plenary session.

Nostalgia Luncheon

Where were you in '62... or '48... or '87? At EDC's Nostalgia Luncheon, you'll have the chance to tell everyone what you've been up to and to find out what others have been doing. Luncheon will be served immediately following the conclusion of the "Prevention Revisited" symposium.

Enjoy the camaraderie of colleagues, former and current EDC faculty and staff, and other friends. There will be all sorts of fun, games, historical memorabilia, and things to do and see. And don't be surprised if some colorful characters from EDC's past join you at lunch. After all, George Eastman liked a good party, too.

Call for posters and table clinics

EDC alumni, staff, and students are conducting important and exciting investigations in dental research and clinical applications. During our 75th Anniversary celebration, we're inviting you to share your research-in-progress and findings with your colleagues.

A poster and table clinic session is scheduled for Friday afternoon, September 14, 1990, in the Dental Center Atrium.

If you would like to present a poster, please submit an abstract of your research, using the 1990 IADR format and guidelines for research abstracts.

For those of you who wish to participate in table clinics/clinical poster presentations, please submit a brief (not more than two typewritten pages) abstract, including the name of the presenter, discussion of the topic, and a description or rough drawing of the materials you wish to present.

Submissions for research posters and for table clinics/clinical posters should be forwarded to:

Dr. Michael Myers
Department of Prosthodontics
Eastman Dental Center
625 Elmwood Avenue
Rochester, NY 14620
FAX: (716) 244-8772

All submissions must be received by April 1, 1990 to be considered for exhibition. Posters and table clinics will be judged and accepted on the basis of quality of information and presentation of materials.

The envelope please

EDC alumni have accomplished great things. We've chosen the occasion of our 75th Anniversary to honor three alumni who have made outstanding contributions to dentistry as clinicians, educators, and scientists.

Who are the recipients of EDC's first Distinguished Achievement Awards? That's up to you!

We're asking all EDC alumni, faculty, and staff to participate in the awards process by submitting nominations in any or all of the three categories to be recognized:

Excellence in Clinical Practice
Excellence in Dental Education
Excellence in Dental Research

Nominations must be accompanied by a detailed biographical sketch and include clear documentation of the reasons supporting your recommendation. Please be sure to specify the award for which your nominee is to be considered. It is possible to nominate an individual for more than one award.



All nominations must be received by the Honors and Awards Committee by March 1, 1990.

Please use the form below — or a photocopy — to send along your recommendation.

ALUMNI AWARDS NOMINATION FORM

Please use this form or a photocopy when submitting your nomination.

Name of Nominee _____

Graduation Year and Department _____

Address _____

Daytime Telephone Number _____

Don't forget to attach detailed biographical sketch for your nominee and a written recommendation in support of your candidate.

Send your nomination by March 1, 1990 to:

Dr. J. Daniel Subtelny
Department of Orthodontics
Eastman Dental Center
625 Elmwood Avenue
Rochester, NY 14620
FAX: (716) 244-8772



We request the honor of your presence

Eastman Dental Center will host an elegant dinner as a tribute to our three Distinguished Alumni award-winners and in celebration of our 75th year.

The Genesee Valley Club, one of Rochester's finest private clubs, is the place to be on Friday evening, September 14.

Plan for a night of socializing and celebrating at this very special black-tie affair. Seating is limited. Please register early so we may guarantee your place.

SATURDAY, SEPTEMBER 15, 1990

Eastman Dental Center Clinical Presentations (Site TBA)
Alumni Social Event (The Country Place, Mendon)



The changing world of dental practice

Dentistry is changing rapidly as a result of an increasing knowledge base, new governmental regulations, and the importance of risk management.

EDC's five clinical departments have organized a special session to give you the opportunity to find out about our faculty's contributions to the changing world of dental practice.

The morning session has two concurrently running programs: Program I features presentations in General and Pediatric Dentistry. Program II is concerned with topics in Orthodontics, Periodontology and Prosthodontics.

Party line

What would a 75th Anniversary celebration be without a party?

Although we've done many things in 75 years, there is at least one thing we haven't done and it's time we did something about it.

EDC alumni are cordially invited to join us for the first-ever All-EDC Alumni Reunion.

We'll meet in the late afternoon at The Country Place for an afternoon and evening of fun, including tennis, swimming, and a casual cookout. There will be dining and dancing under the stars in this delightful country club setting.

It's a fitting conclusion to our celebration and the precedent, we hope, for future alumni gatherings.

Visiting Professors

In recent months, a trio of visiting professors from Jerusalem, Beijing, and Birmingham has contributed to the exciting scientific life in EDC's Department of Oral Biology. Each researcher came to EDC after noting common dental research interests with Department Chairman Dr. John D.B. Featherstone. The department's dedicated staff, sophisticated equipment, and spirit of inquiry provided fertile ground for the professors' research projects.

Getting to the root of the caries problem

The five months spent by visiting professor Dr. Theodore Koulourides in the Department of Oral Biology yielded new information about caries that form deep in the tooth. These recurrent root caries are typically found next to a filling or crown. They affect dentin and cementum, the tissue beneath surface enamel and on the root surface.

The research of Dr. Koulourides, professor of dentistry at the University of Alabama School of Dentistry, centered on the chemistry of interactions between fluoride and dentin. He treated dentin with different concentrations of a fluoride in acid medium, then viewed surfaces and cross sections of treated teeth under EDC's scanning electron microscope. Chemical analyses performed by Carol Shields (research associate, Dept. of Oral Biology) explained observed tissue changes.

"We've known for some time about a particularly beneficial property of fluoride that causes teeth to develop a 'resistance' to caries," explained Dr. Koulourides. "In my work at EDC, we made inroads that reveal the basic science of fluoride's action. We know more about the fortification of dentin against acid attacks.

"This kind of basic science research in studying chemical reactions serves as a guide to reasoned clinical research. Our work can help dentists to become more intelligent in choosing effective clinical treatment to make the tooth resistant to decay."

One group of people who might be helped by Dr. Koulourides' research is patients whose tooth roots are exposed because of gingival recession.

"Dentists find lesions that develop on the roots extremely difficult to treat with fillings," explained Dr. Koulourides. "They report more success with plaque removal and fluoride treatment. My work on fluoride and root caries may help these patients.

"There's more work to be done on this problem all over the world, but our work provides a strong lead."

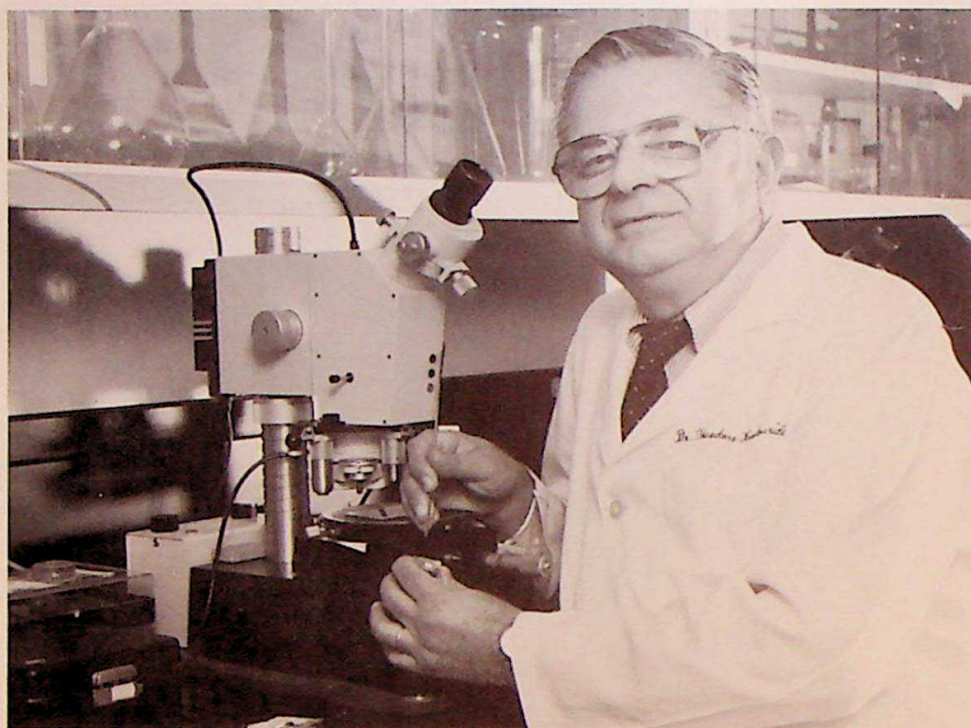


photo by Royal Chamberlain

Visiting professor Dr. Theodore Koulourides recently returned to EDC to further his research in root caries. He pursued postgraduate studies at EDC and the University of Rochester School of Medicine and Dentistry 1955-58.

Commenting on the value of his work at EDC, Dr. Koulourides said, "Combining my work with that of Dr. Featherstone and the skilled assistance of Carol Shields gives all of us a better focus on the problem. It's very stimulating to be exposed to different thinking, particularly in tackling problems in research."

Dr. Koulourides has submitted two papers reporting his research findings to the International Association for Dental Research for presentation at the 1990 meeting in Cincinnati.

Shedding light on lasers

The use of laser technology to prevent dental caries fascinates Dr. Shu-Hua Zhang, a visiting scientist from the People's Republic of China. Dr. Zhang is a pediatric dentistry lecturer at Beijing Medical University who has pursued research in the Department of Oral Biology since April.

"My work is exciting because it can help to further laser technology in the dental setting," said Dr. Zhang. "But before lasers can seriously be considered, we have to learn more about their safety and effectiveness."

Research pursued by Dr. Zhang in China yielded information about precise conditions for safe laser treatment. She studied the laser's effect on the health of pulp, found in the tooth interior. Its veins, arteries, nerves and lymph can be severely

damaged by a temperature setting that is too high or treatment that lasts too long.

Her data helped to set a delicate balance between temperature and duration of treatment.

Since her arrival at EDC, Dr. Zhang has been immersed in a new laser study that promises to shed more light on the effectiveness of laser treatment in caries prevention. After producing caries-like lesions in teeth by subjecting them to an acid solution, Dr. Zhang treats lesions with the laser. She then tests the ability of the tooth enamel to withstand further acid contact.

"The laser influences the crystalline structure of the tooth by fusing the enamel surface," explained Dr. Zhang. "My preliminary results indicate that the laser can be of help in fighting early caries lesions. I expect more definitive results to my study within a few months."

Dr. Zhang gives a glowing report of large increases in her scientific output since her arrival at EDC. "I've finished 14 experiments in the time that it used to take me to complete three of four," she said. "In six months, I've done what I used to do in three years."

Her research is aided by something as simple as the easy availability of supplies, which often arrive within a few days after they are ordered. "At home, they take *much* longer to be delivered," she emphasized.

The cooperation of EDC's personnel wins Dr. Zhang's praise. "People have been so kind and helpful," she said. "I now have immediate results when I ask to have photos made on the scanning electron microscope. Before I came here, it was not unusual to wait three months to obtain the same information."

"If I'm unfamiliar with a piece of equipment or if I need to learn a certain technique, there's always someone who is only too happy to explain things to me. I've learned about planning experiments and I've received generous support and encouragement for my ideas."

Dr. Zhang also remarked on the excellence of EDC's library in giving her access to current journals.

Dr. Zhang concluded, "I consider this period of working at EDC to be an important time in my career."

Israel/U.S. scientific collaboration

Dr. Isaac Mayer and Dr. John D.B. Featherstone have a personal appreciation for international scientific collaboration. The Hebrew University (Jerusalem, Israel) chemistry professor and the chairman of EDC's Department of Oral Biology worked for two years on a basic science research project concerning apatite, the mineral structural component of teeth and bones.

The two scientists consulted about the planning, execution and interpretation of studies. When telephone calls and letters proved inadequate for communication, they

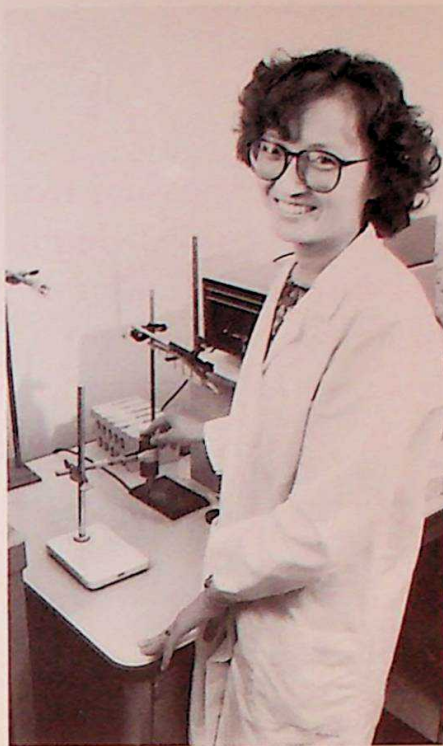


photo by George S. Morgan

Dr. Shu-Hua Zhang's research at EDC is supported by Annual Giving.

arranged meetings in their respective laboratories.

In October, 1988, Dr. Featherstone traveled to observe Dr. Mayer's research in Jerusalem. Dr. Mayer came to Rochester in August, 1989, to observe progress in Dr. Featherstone's laboratories.

On these visits, the scientists spoke with project team members, examined apparatus and reviewed step-by-step techniques used in experiments. Each offered his perspective on the other's work.

"Four eyes see more than two eyes," commented Dr. Mayer about the advantages of collaboration. "Although Dr. Featherstone and I work in the same field, we have different ideas and directions. Through sharing, we gain new insights into our work."

Dr. Mayer also mentioned that research can suffer from isolation. "A collaboration such as ours can help a scientist from a small country like Israel to stay in the mainstream of current thought," he said.

The Featherstone-Mayer collaboration proved so rewarding that the scientists decided to continue working together while Dr. Mayer applies for additional funding from the U.S./Israel Bi-National Fund. The Jerusalem-based organization issued the grant supporting the original cooperative effort.

The scientists studied physical and chemical properties of new compounds produced when synthetic carbonated apatites are exposed to trace elements such as magnesium and zinc. They gained basic scientific knowledge about apatite/trace element combinations.

Under certain conditions, the elements become part of the structure of the mineral; under other conditions, they form attachments to the surface only.

Improvements in health care technology may be derived from a Featherstone-Mayer study of apatite/trace element compounds at high temperature. Such temperatures are produced locally on dental enamel when lasers are used in caries prevention treatments. In addition, materials used in biotechnologic advances such as bone implantation are manufactured at these same elevated temperatures.

Data gathered from this study may help to create more effective use of lasers in caries prevention and improved biotechnologic materials.

The international scientific community will soon be able to read about Dr. Mayer's and Dr. Featherstone's collaborative work. The scientists have co-authored articles scheduled to appear in upcoming issues of the *Journal of Inorganic Biochemistry* and *Calcified Tissues International*.

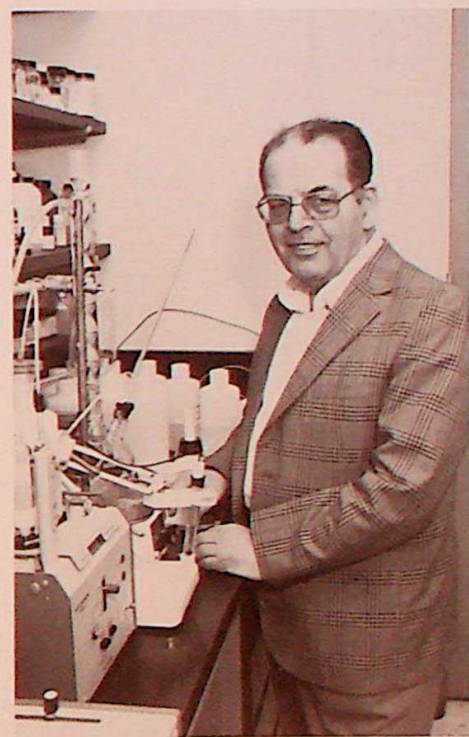


photo by Royal Chamberlain

Dr. Isaac Mayer

Alumni News

Mansour Assery (PROSTHO '88) returned home to Saudi Arabia after completing an M.P.H. at the School of Public Health, University of Alabama. He and his wife are the parents of a baby girl, Bushra, born on August 24.

Izchak Barzilay (PROSTHO '89) has relocated his prosthodontic practice to Young Street, Toronto.

Agnes Del Toro (GEN DEN '87) was married to Kai Pedersen in December, 1988, in Carozal, Puerto Rico. She worked during the past academic year as coordinator of the Dental Care for Developmentally Disabled Program, SUNY Stony Brook School of Dentistry. Dr. Del Toro is currently living in Norway, where she hopes to master the language and set up a dental practice.

Carsten H. Ingerslev (INTERN '61-'62) and his wife currently reside near Nice, France. "We're enjoying the ancient Roman culture, each other, and of course, the wonderful climate," he wrote.

Dr. Ingerslev recently retired after working for 23 years in a cleft palate clinic in Copenhagen and 17 years in a private orthodontic practice.

Johnna Jorgensen (PED DEN '87) is enjoying private practice with her husband, David K. Smith, in Gallipolis, Ohio.

Bruce Kemp sends greetings from Dauphin, Pennsylvania, where he and wife, Joyce, are rearing three children.

Rosemary Kloap-Clay (PED DEN '86) was recently appointed coordinator of handicapped dentistry and special patient care at the Medical Center of Delaware (Wilmington).

Theodore Koulourides (ORAL BIO. intern '58) will continue part-time research after taking early retirement from the University of Alabama School of Dentistry, where he is professor of dentistry.

Daniel MacDonald (PERIO '88) received the Fellowship Award of the Academy of General Dentistry at their annual meeting in New York City. To receive the award, Dr. Mac Donald completed more than 500 hours of continuing education in a 10-year period and successfully completed an examination. He is in private practice in Rochester.

Robert L. Mandell (GEN DEN '76) wrote from Tyngsboro, Massachusetts, that he has received a three-year NIDR grant to study periodontal disease and diabetes. He works half-time at Forsyth Dental Center and recently moved his private practice to an office condominium.

Ramon Castillo Mercado (PEN DEN '67) was president of the VI International Congress of Stomatology, held in Lima, Peru, November 15-18. He is part-time professor of pedodontics, department chief, and chairman of the Post-Graduate Education Program, Peruvian University Cayetano Heredia.

His daughter, Silvia, is a dentist who works with Dr. Castillo in his private practice in Lima. His son, Jorge, and daughter, Monica, are currently dental students. "We are five dentists in my family, because my wife is also a dentist," wrote Dr. Castillo.

Stephen Miller (GEN DEN '81) wrote from Pittsburgh, Pennsylvania, that he was recently appointed to the staff at Montefiore Hospital, where he supervises dental residents and lectures in general dentistry. He has a new son, Harley Samuel.

Bernard Neuwirth (PED DEN '53) practices in Miami, Florida, and would enjoy hearing from classmates.

Jorgen Theilade (PERIO '59) has been appointed sub-dean of the Faculty of Dentistry at the University of Hong Kong.

Gaby Wittmann-Sippel (GEN DEN '86) and **Felix Sippel** (GEN DEN '86), who have a joint practice in Nurnberg, Germany, visited EDC in September.

What's new...How's by you?

If we haven't heard from you lately — or even if we have — we encourage all our alumni and friends to put pen to paper and tell us what's happening. We know that all *Momentum* recipients would love to read all about it, whatever "it" happens to be. Take a moment to write us about your new job, new book, new accolade, new spouse or newborn. Remember, it's always news to *Momentum*.

Name _____

Speciality _____ Year _____

Address _____

City _____ State _____ Zip Code _____

Telephone _____
(please include area code)

Here's what's new with me _____

Please send your notes to: *Momentum*
Editor, Eastman Dental Center, 625
Elmwood Avenue, Rochester, NY 14620.

Due to publication deadlines, we may not always print your news right away. Never fear, if you don't see it in one issue, look for it in the very next one.

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