

MOMENTUM

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News & Viewpoints for Eastman Dental Center Alumni & Friends

New visions through a microscope

Dental researchers at Eastman Dental Center and the University of Rochester now have access to a high-tech instrument that greatly improves visualization of dental tissue surfaces. A scanning electron microscope (SEM) has been in operation at the Dental Center since September, 1988.

Dr. John D. B. Featherstone, chairman of the Department of Oral Biology, hails the SEM as a boon to the dental research community in Rochester. "It's a necessary part of any institution seriously involved in studies of teeth, bone and soft tissue," he explained. Dr. Featherstone obtained funding for the SEM through a National Institutes of Health shared instrumentation grant.

SEM Technician Sandy McCormack, who joined EDC with seven years' experience in teaching, consulting and SEM research, enumerated three advantages of the SEM over the light microscope: greater magnification, resolution and depth of field.

"With the light microscopes that have been available to EDC researchers," she said, "top magnification is approximately 1000x — sufficient to see colonies of bacteria. Magnifications up to 150,000x obtained with the SEM allow easy identification of different bacterial types. It's even possible to see surface detail of individual bacteria."

Working in a basement laboratory out of the mainstream of most EDC activity, Sandy reports a heavy stream of traffic to her door. "Researchers are bringing samples for study

Dr. Bibby receives ADA's 1988 Gold Medal

Dr. Basil G. Bibby, senior scientist emeritus and former EDC director, is the recipient of the 1988 ADA Gold Medal Award for Excellence in Dental Research. The award was presented on October 8 in Washington, D.C., at a luncheon in Dr. Bibby's honor.

We've reprinted an excerpt from the public announcement of the award, which appeared in vol. 19, no. 16 of the ADA News. The article details highlights of a long career filled with accomplishments and includes comments by colleagues about the merit of Dr. Bibby's work. — Editor

Dr. Bibby, 84, is the second dentist to receive the (Gold Medal) Award, which was presented for the first time in 1985 to Dr. Irwin Mandel of Columbia University. The

Gold Medal Award, funded by the ADA and Chesebrough-Pond's, Inc. is given every three years.

"His early work," said Dr. Mandel in a statement he wrote about Dr. Bibby, "on the importance of the pellicle, the organic structures of enamel, and the antibacterial factors in saliva in host resistance to caries are still as pertinent today as they were 50 years ago."

"Obviously, I'm very flattered to receive the award," Dr. Bibby said... "I think it's a very good thing that the Association is offering such incentive to research workers who have long worked separately in university groups. I'm glad to see the increased support for research."

Citing his "great belief" in the value of research, Dr. Bibby added, "I do it because I enjoy it, rather than saying I'm trying to save the world or humanity." He said his only plans for the money so far are "two or

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photo by Royal Chamberlain

Technician Sandy McCormack with the scanning electron microscope, now available to dental researchers at Eastman Dental Center and the University of Rochester. In the center is the vacuum chamber, where Sandy places samples for study.

that include tooth root and enamel surfaces as well as adherent caries-forming bacteria," she said.

Dr. Featherstone sees exciting new vistas in dental research made possible by the SEM. "We can test innovative uses of materials," he said. "For instance, a material called 'ceramic apatite' looks promising for use in dental implants because the chemical composition of its surface is similar to that of bone.

"Under the high magnification available with the SEM, it is possible to see whether or not ceramic apatite forms a union with the bone into which it's implanted.

"The SEM can influence our ability to delve into problems associated with caries formation," Featherstone continued, "to see the results of chemical reactions on the tooth surface and to visualize the changes that take place as caries grow.

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EDC projects, programs benefit from AG '88-'89

With your help, this could be the year that EDC's Annual Giving Campaign hits the "big time" and clears \$100,000.

Some very encouraging signs have already appeared. In the first three months of the Campaign, nearly 235 alumni, faculty, staff, friends, corporations, foundations, and vendors have contributed over \$70,000 in cash, pledges, and in-kind gifts. Two years ago, \$60,000 was the final total for the Campaign.

The Center's four Leadership Giving Societies have attracted nearly 160 new or renewal members and a number of donors have increased their gifts to advance to the next higher giving level. In 1987-88, charter membership in these four societies at the conclusion of the Campaign was 196.

Mr. Paul W. Briggs, EDC trustee and the recently retired chairman of the board of Rochester Gas and Electric Company (see related story, p. 3) is chairing Campaign efforts.

Although most gifts to the Campaign are used for general operating support by the Center, many donors have chosen to designate all or a portion of their gift to a particular department or to one of several projects described in the Campaign's informational brochure. These projects include funds for a second Smilemobile (a mobile dental unit), fellowship support in the Department of Prosthodontics, educational materials for the Department of Pediatric Dentistry, and student research fellowships.

"In addition to gifts from those who have supported the Center's past Campaigns, we have attracted the interest of many individuals and businesses who are first-time participants," said Dr. William D. McHugh, EDC's director. "We're pleased to see such widespread interest in EDC's people and programs."

There's still time to make a gift to the 1988-89 Annual Giving Campaign, which will conclude on May 31, 1989. No matter how large or small, all gifts are important and welcome.

Methods for making a gift are varied and many options also provide tax benefits. In addition to outright gifts of cash or pledges to be paid by the end of the Campaign, you may wish to consider:

- Making a substantial pledge of \$5,000 or more, to be paid over a multi-year

- period;
- Giving appreciated securities;
- Donating real property while retaining use for life;
- Naming EDC as a beneficiary of an insurance policy or your IRA;
- Making a bequest, with EDC listed as a beneficiary in your will;
- Creating a charitable remainder trust, where EDC receives the remainder of your estate after it is distributed to other named family members or friends.

If you'd like further information on giving or assistance in planning your gift, please contact Susan D. Smith in the Office of Development and Communications (716) 275-4534.

Dr. Bibby (continued from page 1)

three charities that I'd like to do better by than I have in recent years."

With a career spanning more than 60 years, Dr. Bibby's contributions to dental research have been varied in subject matter and scope. He is credited with first proving that fluoride reactions with the enamel surface would prevent caries, explained Dr. Stanley L. Handelman in a letter nominating Dr. Bibby for the award. Dr. Handelman is chairman of Eastman's General Dentistry Department.

In a nominating letter from Dr. William H. Bowen, chairman of the Dental Research Department, and Dr. Lawrence A. Tabak, associate professor in the Dental Research and Biochemistry Departments at the University of Rochester, the two point out Dr. Bibby's "seminal contributions to understanding the role of diet in the etiology and pathogenesis of dental caries."

From 1947 to 1970, he was director of the

Eastman Dental Center and during that time was a professor of dentistry at Rochester. He was named senior scientist at Eastman in 1971, and has served as consultant or on committees for the National Institute of Dental Research, the Food and Drug Administration, the ADA, and the University of Alabama Dental Research Institute.

He has won numerous honors and distinctions, holds membership in 17 professional and scientific organizations, and has written more than 225 publications and 100 abstracts.

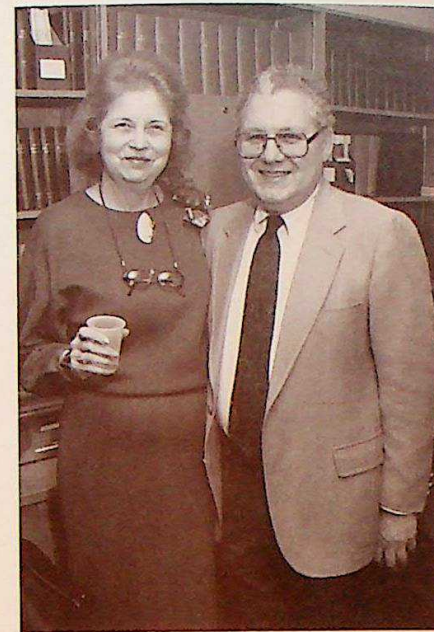


photo by Royal Chamberlain

Marian Ross (l.) retired in December, 1988, after 11 years' service as secretary in the Dept. of General Dentistry. Department Chairman Dr. Stanley L. Handelman (r.) expressed appreciation for Marian's contributions to EDC at a party held in her honor.



Marion Culkowski recently retired from EDC after 25 years as a dental assistant in the Department of General Dentistry. At a party given in her honor on August 12, many friends gathered in the Ely Room to wish her a happy retirement (l to r): Dr. Anne Polson, Marian and husband, Ed, Joe Preston and wife, Marie.

EDC

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Bea Briggs (l.) and her husband, EDC Trustee Paul W. Briggs (c.), greet a guest attending his RG&E retirement party.

Paul Briggs retires from RG&E

Eastman Dental Center Trustee Paul W. Briggs recently retired as Chairman of the Board of Rochester Gas and Electric, a position he held since 1980. He continues to serve the local utility as a board member.

On November 30, friends, family, business associates, and civic leaders gathered at the Rochester Convention Center for a retirement party honoring Briggs. The party featured a multi-projector slide presentation set to music — a look back at the strides taken by RG&E during Briggs' chairmanship and a testimony to his personal commitment to the Rochester community.

The presentation gave numerous examples of strong leadership through years which included the Arab oil embargo, infla-

tion, high interest rates and financial difficulties with the Nine Mile II Nuclear Plant. Despite these pressing problems, Briggs placed community service as a high priority for himself and for RG&E. He renewed established ties and created new opportunities to serve Rochester's charitable, business and arts institutions.

Highlighted in the presentation was Briggs' long service to Eastman Dental Center, with special mention of his behind-the-scenes work that resulted in EDC's move in 1978 from Main Street to its present Elmwood Avenue site. Words of appreciation from Center Director William D. McHugh were cited, "It was also during this time that the Dental Center undertook the arduous task of strategic planning. Paul's insights and suggestions during this process enabled the Center to produce a plan that has served us well."

Smilemobile: half-way to its goal

Eastman Dental Center's Smilemobile Program is the recipient of three additional grants totaling \$7,500 from the John F. Wegman Foundation, the Allstate Foundation, and the Junior League of Rochester.

The grants will be used to purchase and equip a second mobile dental unit which travels to schools and daycare centers in Greater Rochester. More than 1400 children ages 2-12 receive complete dental care via the Smilemobile program.

"We've reached the half-way point in support of this program," said Dr. Ronald J. Billings, director of the Smilemobile and assistant chairman in the Dental Center's Department of Community Dentistry. "The Dental Center is fortunate to have attracted more than \$90,000 toward the program's total cost of \$175,000," he said.

"The Dental Center is grateful to Rochester's corporate and foundation community for its interest in and commitment to the Smilemobile program," said Dr. William D. McHugh, Center director. "The original Smilemobile was purchased in 1970 with gifts from Sybron, the Wegman Foundation, and the Monroe County Dental Society. We're delighted that the Wegman Foundation will continue to play a part in the program and is joined in this effort by the Allstate Foundation, Junior League of Rochester, and several other foundations."

"Children seen on the Smilemobile are among those for whom the need for dental care is greatest. Many children are from underserved areas of the city who might otherwise not receive care," said Dr. Billings.

"The current Smilemobile has been in service for 18 years and travels to six schools and eight daycare centers. A second Smilemobile will permit us to expand services to an estimated 1200 additional children whose need for dental care is critical," said Dr. Billings.

Children enrolled in the Smilemobile program receive complete preventive care, including an exam with x-rays, cleaning, fluoride application, and dental sealants for prevention of caries (tooth decay). Additional services such as fillings and extractions are provided to children who need dental treatment.

Smilemobile services are underwritten by Medicaid, donations from the community, and Eastman Dental Center endowment funds.

The Smilemobile program has also received grants from the Curtice-Burns Pro/Fac Foundation, the Davenport-Hatch Foundation, the Gannett Foundation, the Gleason Memorial Fund, the Daisy Marquis Jones Foundation, and Fisons PLC (formerly Pennwalt Pharmaceutical Division). More than \$2,000 in individual contributions have been received from Dental Center faculty, staff, and friends.

New Visions (continued from page 1)

"The SEM can show us how well the interventions we design to inhibit caries growth actually work. We'll also be able to see the results of the remineralization and demineralization process occurring continually on the tooth surface and in sections of the subsurface."

Dr. Featherstone summarized the importance of the SEM to the dental community and to consumers of dental care and products. "By designing studies that make use of the detailed images produced by the SEM, we researchers can gain refined information about basic physical changes occurring in dental tissue. We can also evaluate innovations with the potential to make significant improvements in dental health."

With Sympathy

The faculty, staff and students of Eastman Dental Center extend heartfelt sympathy to the family of Jack M. Posen (ORTHO '63) and his wife, Carol, of Harrison, N.Y. The Posen's daughter, Pamela, was killed on December 21, 1988, in the crash of Pan Am flight #103 in Lockerbie, Scotland. Pamela had been attending a semester-abroad program in London and was returning to spend vacation time with her parents when the tragic crash occurred.



photo by George S. Morgan

At a cocktail reception held in the Atrium on September 23, EDC honored generous donors in two leadership giving societies, Friends of EDC and Director's Society. Marcia Hepburn Adair and husband, Dr. Steven Adair, chairman, Dept. of Pediatric Dentistry (l to r), greet EDC Trustee Herbert W. VandenBrul.

Calendar

February, 1989

23-AADR, Rochester Section, Annual Meeting. Atrium and Farash Auditorium. Contact: Dr. Lawrence Tabak, 275-3442.

March, 1989

12-Atrium Gallery Reception: Purple Hearts — Oil paintings by Wendy Menzie. 2:00-4:00 p.m.

April, 1989

27-Geriatric Dentistry Workshop. 9:00 a.m. - 12:30 p.m. Contact: Dr. Lin Saunders, 275-1141.

June, 1989

8-11th Annual Allen A. Brewer Upstate New York Prosthodontic Conference. "Cast Acid-Etched Retainers" by Dr. Gerald Barrack. "Porcelain Laminate Veneers" by Dr. John Calamia. Contact: Maxine Manjos, 275-5064.

9-Prosthodontic Alumni Reunion.

16-Commencement. Farash Auditorium and Atrium. 4:00 p.m.

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