



FOCUS

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A Decade of Progress Highlights the Power of Giving

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Will my gift make a difference? This is the question that every donor asks. The ability to cite measurable results is the gold standard for nonprofit organizations. From relief for the earthquake victims in Haiti to saving California Redwoods, the most compelling argument for philanthropic support is not the magnitude of the problem, but the certainty that donors, through their generosity, can impact the solution.

Every 10 years, the American Dental Association's Council on Dental Education and Licensure reviews the progress of the specialty across a range of activities. Their goal is to confirm that endodontics continues to advance in ways that distinguish it from any other branch of dentistry. Research and education are two primary areas of investigation. The AAE Foundation plays a pivotal role in enabling the specialty to deliver a strong response in these reviews.

Over the last decade, the Foundation's funding to research has almost tripled. From 2001-2009, the Foundation awarded \$2.6 million to 47 different institutions. Dental materials, pain management, microbiology, clinical research and regeneration are among the areas where the most advancement has occurred. The decade's major scientific developments are evidence of members' generosity at work. Following are some examples of that growth:

Although mineral trioxide aggregate is not a new material, over the last 10 years its

clinical potential has grown impressively. Endodontists throughout the world are focused on learning more about how MTA can save teeth. Research funded by the AAE Foundation has helped to identify MTA's role in stimulating hard tissue development and its applications in vital pulp therapy. It is exciting to see evidence that added protection against bacterial penetration appears to enhance the recovery for pulp tissue. In addition to MTA, advances have been made in other filling materials such as the use of dentin bonding agents in combination with the filling core.

The ability to relieve patients of pain is a hallmark of endodontics. It is one of the primary reasons practitioners are attracted to this area of dentistry. Research has yielded significant data on the value of supplemental intraosseous anesthesia and provided direction on how to improve the delivery of local anesthetic. Endodontics is on the threshold of gaining better control over the length of anesthetic time and of managing pain of inflammatory origin. This growing body of knowledge will continue to improve the ability to deliver pain-free procedures and enhance the status of endodontists as experts in the area of pain prevention. Over the last 10 years, the Foundation has invested \$132,927 in research that is directly related to pain.

Extensive research in microbiology has revealed that the nature of organisms populating the root canal is far more diverse than was previously imagined. Some bacteria, once considered rare, are now recognized as significant endodontic pathogens. This improved understanding of biology contributes to the development of more effective biomechanical debridement protocols. New intracanal antibiotics and antiseptics and the use of laser-activated generation of potent oxygen radicals have also improved the ability to eliminate bacteria and provide better clinical outcomes.

The rise of evidence-based dentistry places increased emphasis on the value of clinical research. In the last decade, endodontic scientists have grown more sophisticated in their ability to organize and administer



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From the President

Dear Colleague:

It is a privilege to represent you as the president of the AAE Foundation.

I've been thinking about what this responsibility means. The dictionary defines a foundation as "the basis on which something stands or funds given for the permanent support of an organization..." In other words, a foundation must be grounded in the present yet consistently reaching towards the future.

Our Foundation measures up to that inspiring definition. It stands solidly on the commitment of leaders who had ambitious goals and urged each of us to share their dream. Without the Foundation's early visionaries, we would not be investing over \$1 million in grants this year. If all I had left to do was say congratulations, my job would be simple, but we cannot be complacent. My biggest responsibility is to keep the urgency of our mission in front of you.

The country's economic difficulties should remind us why this fund is so important. Maintaining a strong academic and scientific infrastructure is critical. As an educator, I understand the challenge of striving to provide an excellent academic program while managing a limited budget. When times get tough, institutions must cut back on spending. There may not be money for faculty development or to introduce students to the latest research and technology. Departments may be combined and academic positions may even be eliminated.

Through all of that, our Foundation provides much needed support to every accredited endodontic program in the United States and Canada.

Our future is formed in the classrooms and clinics of the 54 endodontic programs. The AAE's newest members are among the most enthusiastic. Almost \$300,000 was pledged by residents during the 2008-2009 Campaign. In 2010, we have a goal of \$900,000. It is my hope that we can report another outstanding success.

I promise to ensure that the Foundation makes a positive and significant impact on the future of endodontics. If you have already pledged, please accept my sincere thanks for your generosity. If you have not yet committed your support, I urge you to take a step into the future today and make a pledge of \$2,000 (just \$400 a year for five years) or more. With your help, we will have the opportunity to make a greater difference than our early founders ever imagined.

Sincerely,

A. Eddy Skidmore, D.D.S., M.S.
President

Newest Fellow Wins Dual Distinctions



Dr. Maobin Yang

Dr. Maobin Yang has the dual distinction of winning an Endodontic Educator Fellowship Award and receiving the highest resident score for his research project, *Induction of Angiogenesis in Tissue-Engineered Injectable Scaffold Designed for Dental Pulp Tissue Regeneration*, which was submitted in the fall of 2009. (To read more about Dr. Yang's research, see page 5.)

Dr. Yang attended the graduate program at the West China College of Stomatology, Sichuan University. He earned his Ph.D. in oral biology from the University of Connecticut, where he is currently a first-year resident in the endodontics department. Dr. Yang cites three

important goals for his future: "First, I would like to be able to work extensively in my research area, pulp regeneration, to discover and implement new innovations and practices in our endodontic field. Second, as an educator, I would like to be able to impart my knowledge to students entering into the dental profession and make a positive difference in their lives. Third, I hope to introduce and influence more endodontic residents to become educators."

Dr. Yang's goals align perfectly with the objectives of the Endodontic Educator Fellowship Award, given to residents who demonstrate an outstanding commitment to education and promise to be future academic leaders. The Fellowship Award will provide tuition for Dr. Yang, plus a stipend of \$2,500 per month. In return, he has agreed to teach for at least five years.

First Postgraduate Fellowship Award Distributed



Dr. Jeffrey H. Janian

Volunteering as an educator for three years inspired Dr. Jeffrey H. Janian to make the leap to a full-time faculty position. In July 2009, he was appointed program director for postgraduate endodontics at the University of California at San Francisco. The Postgraduate Fellowship Award is designed to support members like Dr. Janian who transition from private

practice to academics and who agree to teach for at least five years. Dr. Janian is the first recipient and will receive \$100,000 from the award.

Board certification was an important milestone

on the way to Dr. Janian's academic career. "The process of becoming a Diplomate increased my desire for excellence in clinical endodontics. Additionally, it increased my drive to fully understand the biologic basis of the specialty. One of the aspects that I found most fulfilling was the realization that I have the capacity to learn any subject regardless of the complexity of the material. I intend to impart this realization to my residents and to instill in them the drive to become Board-certified endodontic educators themselves."

Dr. Janian will also draw on his own experience to recruit other private practitioners from the Bay area of California who are interested in teaching part-time.

Are you a Diamond in the Rough?



Fundraising volunteers want to add some "bling" to this year's campaign. They are looking for a handful of Diamonds—donors, that is—who will pledge \$25,000 (\$5,000 a year for five years).

The goal is to raise \$900,000 or more to replace the \$1 million allocated for grants in 2010. Donors at this leadership level enjoy special recognition among their colleagues as well as the special satisfaction of knowing that they play a pivotal role in the Foundation's ongoing success.

For details about becoming a Diamond donor, please contact Development Coordinator Suzanne Riger at 800/872-3636 (North America) or 312/266-7255 (International), ext. 3008, or by e-mailing sriger@aae.org.

Each review cycle, the highest-scoring resident and faculty research grant applicants receive a \$500 cash award. The Foundation's goal is to improve research quality and to applaud those applicants whose efforts reflect the highest quality science.

The Foundation Research Grant Application can be downloaded from the Foundation Web site at www.aae.org/foundation. Please contact Suzanne Riger, development coordinator, with questions at 800/872-3636 (North America) or 312/266-7255 (International), ext. 3008, or by sending an e-mail to sriger@aae.org. Following are the stories of the 2009 recipients and their research.

Regeneration for Future Generations



Dr. Cameron H. Howard

Dr. Cameron M. Howard is among the new generation of endodontists with a passion for learning about regenerative techniques. He explains his research to dental students at Nova Southeastern University like this: "Endodontic treatments are extremely successful and valuable, but wouldn't it be great if we could improve them further? We need

to be examining the effectiveness of revascularization, stem cells and tissue engineering approaches to regenerate the vitality of diseased teeth. This is the emerging field of regenerative endodontics."

One of the main factors that influenced Dr. Howard's decision to enter the residency program at NSU was the chance to participate in a regenerative endodontics research project. "On our interview day, Dr. Peter E. Murray gave a presentation on regenerative endodontics, and I knew right away that I wanted to have a role in developing future endodontic therapies," remembers Dr. Howard. "I would like to see the science and technology of endodontics advance to the stage where we can restore the natural vitality of almost all diseased teeth, thereby reducing the need to extract teeth and for patients to have implants or wear dentures.

The first goal of Dr. Howard's research project was to answer a major question: Can we create dental pulps in the laboratory by seeding dental pulp stem cells onto 3-D tissue engineering scaffolds? The answer was yes, but with varying degrees of success. The second goal was to attempt to promote the survival of dental pulp stem cells by coating the scaffolds with growth factors prior to seeding the cells. This identified essential growth factor coatings that dental pulp stem cells can respond to, and which could make regenerative endodontic therapy more successful. "The next step is for me to perform preclinical trials on primates to see how the laboratory observations can be translated to the dental clinic," says Dr. Howard.

Dr. Howard's enthusiasm for investigating endodontic therapies landed him the resident position

on the AAE Regenerative Endodontics Committee, where he had the opportunity to work with pioneers in the field trying to assess how endodontists can become the experts in endodontic regeneration. "The future goal," Dr. Howard observes, "would be for endodontists to be the leaders in providing dental tissue regeneration therapies to patients, inside and outside the root canal. This would secure the future of our profession and be an incredible service to our patients."

When not busy finishing up his residency requirements and writing his master's thesis, Dr. Howard and his wife like to relax on south Florida's beaches and grow plants in their garden. Dr. Howard says, "the commitment and passion from the AAE Foundation President A. Eddy Skidmore and the AAE's other members convince me of the importance to continue the legacy of our specialty to be supportive and helpful to our colleagues."

A Biological Look at Endodontic Treatment



Dr. Seokwoo S. Lee

Dr. Seokwoo S. Lee is investigating how bacterial pathogens behave inside the host during an infectious process. In particular, *Enterococcus faecalis*, a pesky bacteria thought to be found in persistent root canal infections. *E. faecalis* seems to exhibit similar behavior to the bacterium thought to cause chronic infection such as periodontal disease. While

working on his Ph.D. in oral biology, Dr. Lee developed novel techniques to study *in vivo* aspects of microbial pathogenesis in periodontal disease. With current and future research, he seeks to identify and discover new bacterial products from pathogens specifically turned on *in vivo*.

Currently, Dr. Lee is collecting dental pulp samples from patients with root canal and periapical infections. He expects that the pulp tissues will contain *E. faecalis*, and will verify this assumption with polymerase chain reaction analysis.

Once the presence of *E. faecalis* is confirmed, Dr. Lee will try to identify and isolate virulence-related proteins of *E. faecalis* that are only expressed in an infectious process using Proteomics-based Change Mediated Antigen Technology. PCMAT is a novel technique that can screen a picture of the genetic library of *E. faecalis* with antibodies produced in chicken. "This step is important because these virulence factors should be isolated from an *in vivo* environment, since they are actually involved in the infectious process," explained Dr. Lee. "Once they are isolated we can begin to understand microbial pathogenesis of *E. faecalis* and develop more effective diagnosis, treatment, and preventive measures in the management of root canal and periapical infections."

Dr. Lee believes that understanding biological

principles and the precise etiology of chronic infections are important to the future of endodontics. He is committed to preserving natural teeth and was excited to be recognized by the AAE Foundation for his proposal. "Most of my research activity has related to periodontal disease," explained Dr. Lee. "This award will therefore guide me to a new direction and facilitate my professional development."

As a professor in the division of periodontics at the School of Dentistry of Marquette University, Dr. Lee enjoys spending time doing research, collaborating with other faculty and interacting with open-minded students. Outside of the university walls, Dr. Lee enjoys playing golf, traveling and spending time with his family.

Endodontics Goes Viral



Dr. Curtis A. Machida

Dr. Curtis A. Machida, a professor at the School of Dentistry at Oregon Health & Science University, has a strong background in the fields of biochemistry, molecular biology and molecular virology. In recent years, he has applied his knowledge of molecular virology to endodontics.

Dr. Machida hopes to help determine the precise molecular mechanisms that allow for the initiation and progression of endodontic disease.

In his winning project, Dr. Machida is trying to understand the association of Epstein-Barr Virus, a common human herpes virus, with irreversible pulpitis and apical periodontitis. Using technologies such as microarray, immunocytochemistry and polymerase chain reaction, he has been examining the molecular determinants of endodontic disease progression within the dental pulp. "We hypothesize that EBV can represent one of the triggers that initiates a cascade of events," explained Dr. Machida. "We can also identify the potential induction of immune factors, such as proinflammatory cytokines, and determine if the elevation of cytokine levels are associated with symptomatic disease."

In microarray analysis, a small chip is used to deposit and screen several thousand spots of DNA representing distinct human genes. Changes or modifications in gene expression can be identified based on the comparison of diseased and healthy pulp tissue. "Microarray is a powerful approach because we can scan multiple endodontic disease specimens and identify differences in gene expression," said Machida. "We are one of the first labs using this technology to investigate the role of herpes viruses in endodontic pathoses. If we can determine what immune factors are induced, we have the potential to define genetic therapeutic approaches to treat endodontic disease." Although gene therapy is still in the early stages of development, Dr. Machida believes that these solutions could be found within the next decade.

He hopes to publish some unexpected and exciting new findings regarding the identification of an additional human herpes virus in endodontic disease specimens. "Receiving this grant from the AAE Foundation gives me a great opportunity to expand our understanding of disease progression in irreversible pulpitis and apical periodontitis," he said.

As a committed educator, Dr. Machida loves teaching biochemistry and advanced oral biology to dental students and residents. He has resided in Portland, Ore., for over 30 years and enjoys the access to the coast and nearby mountains.

It Takes Two



Dr. Maobin Yang

In order to develop successful regenerative endodontic therapies, focus must be placed on regeneration of both the pulp and dentin tissues.

While several researchers are working on regenerating the dentin tissue, Dr. Maobin Yang, a resident at the University of Connecticut, is hoping to be a pioneer in the exploration of angiogenesis—the regeneration of blood vessels in dental pulp.

According to Dr. Yang, the major challenges facing successful pulp angiogenesis are the scaffold design and growth factors. The variations of the root canal morphology limits rigid scaffold placement, and the control over the spatial and temporal distribution of growth factors is extremely tricky. To address these challenges, Dr. Yang has designed a new injectable scaffold. "Once the liquid scaffold is injected, the gelation occurs at the body temperature, utilizing a purely physical phenomenon," explained Dr. Yang. "In addition, the scaffold is degradable and the rate of degradation can be controlled."

Preliminary results show that this new scaffold is supporting the proliferation of human mesenchymal stem cells. "These cells are growing very happily," said Dr. Yang. "Next up, we will test the model using dental pulp stem cells from stem cells from exfoliated deciduous human teeth."

Dr. Yang is hopeful about the future of regenerative endodontics and its implications for the specialty. "Regenerative endodontics is a new direction," he said. "We have a long way to go but hopefully in the future we will be able to provide new treatment venues."

When not creating innovative scaffold platforms, Dr. Yang spends time watching sports and reading with his wife. Originally from Chengdu, China, he received his dental degree from West China College of Stomatology. He completed his five-year Ph.D. program in skeletal, craniofacial and oral biology at the University of Connecticut in the spring of 2009 and is expected to receive his Certificate in Endodontics in 2012.

Outstanding Science Represented in 2009 Grants

A fact is a simple statement that everyone believes. It is innocent, unless found guilty. A hypothesis is a novel suggestion that no one wants to believe. It is guilty, until found effective.—Edward Teller

Scientists are risk-takers; each experiment is a step into the unknown. Endodontics is fortunate to have a growing number of researchers who willingly explore uncharted territory in the pursuit of new knowledge.

The recipients of competitive research grants in 2009 are listed below. A total of \$292,913 was awarded to 12 institutions.

The AAE Research and Scientific Affairs Committee reviews grant applications on the Foundation's behalf. Members of the committee devote a significant amount of time to this important responsibility. Between 10 and 30 proposals are submitted each spring and fall. In order to participate in the discussion, every committee member must read all of the proposals. Two reviewers are assigned to deliver an in-depth analysis of every project; they assess scientific merit, strength of the research design, statistical validity, originality and relevance to the specialty. Then, the entire group discusses their findings.

A list of proposals ranked by score is submitted

to the Foundation Board of Trustees, who determine the amount of funding that is available. Grants are funded up to the agreed-upon level; for example, if the Foundation allocates \$130,000 for funding and the cumulative total amount of the first 10 proposals on a list of 15 is \$130,000, then the first 10 proposals will be funded, and the other five will not. If all 25 proposals can be funded with \$130,000, then every proposal on the list will be funded.

Each applicant receives a critique that summarizes the committee's discussion. The goal is to provide meaningful feedback that will help endodontic researchers to produce stronger science.

In addition to competitive funding for research, the Foundation also provides \$500 to every resident in an advanced specialty program in endodontics that is accredited or has a reciprocal agreement with the Commission on Dental Accreditation of the American Dental Association.

SPRING 2009

Applicant	Funding	Institution	Project
John T. Dominici	\$3,199	V.A. Medical Center, Houston	Survival Rate of Endodontically Treated in the Veteran Population
Derek C. Ego-Osuala	\$14,000	University of Maryland	The Evaluation of Systemic Inflammation in Patients With Localized vs. Spreading Endodontic Infections
Cameron M. Howard*	\$2,220	Nova Southeastern University	Regulation of Dental Pulp Stem Cell Migration and Regenerative Endodontics
Habib Khalilkhani	\$16,000	Columbia University	Tissue Regeneration Potential of Dental Pulp Stem Cells From an Inflamed Pulp
(Kevin) Liang Li	\$19,000	University of Maryland	Metagenomic Analysis of Bacterial Diversity During the Development of an Acute Apical Abscess
Tyler W. Lovelace	\$18,000	University of Texas at San Antonio	Treatment Outcome With a Revascularization Protocol Using Triple Antibiotic Paste Versus Double Antibiotic Paste
Curtis A. Machida*	\$22,500	Oregon Health & Science University	Herpes Viruses in Symptomatic Endodontic Pathoses: Association of Epstein-Barr Virus With Irreversible Pulpitis and Apical Periodontitis
Ryan P. McNamara	\$12,832	University of Texas at San Antonio	Biocompatibility of Accelerated Mineral Trioxide Aggregate in a Rat Model
Peter J. Moses	\$2,000	University at Buffalo	Role of Streptococcal Collagen Binding Proteins in Dentin Tubule Invasion
Jae Y. Oh	\$20,000	Columbia University	Age Influence on Human Dental Pulp Stem Cell Properties
Thai V. Pham	\$15,000	Columbia University	<i>In Vitro</i> Maintenance of Human Dental Pulp Stem Cell Self-Renewal Capability
Yoav Shiloah	\$24,000	University of Texas at San Antonio	Tissue Characterization in Teeth Treated With a Regeneration Protocol
Toshinori Tanaka	\$12,500	Columbia University	Identification and Isolation of Stem Cells in Periapical Granulation Tissue
Jose (Joe) D. Vela	\$8,000	University of Iowa	Chemical Modulation of Inflamed Peripheral Afferent Neurons in a Postoperative Surgical Model
Jelani T. Washington	\$2,145	Baylor College of Dentistry	Biocompatibility and Osteogenic Potential of New Generation Endodontic Materials Using Primary Osteoblasts
Total	\$191,396		
Special Awards	\$1,000		
TOTAL	\$192,396		

* Highest scoring resident and faculty projects.
Boldface indicates a nonresident.

FALL 2009

Applicant	Funding	Institution	Project
Homa Azargoon and Ben G. Williams	\$2,714	Baylor College of Dentistry	Assessment of Osseous Wound Healing Using HemCon Dental Dressing
Peter J. Bellingham	\$9,662	University of Maryland	Clinical Evaluation of Contemporary Endodontic Antimicrobial Procedures
Marcos R. Frozoni	\$12,000	University of Connecticut	Analysis of the Origin of Odontoblast-Like Cells During Reparative Dentinogenesis Using Parabiosis Model
Jin Jiang	\$7,000	University of Connecticut	<i>Porphyromonas Gingivalis/Porphyrromonas Endodontalis Lipids: Relation to Endodontic Disease and Effects on Osteoblasts</i>
Maheeb Jaouni	\$11,516	University of Maryland	Penetration of Systemic Antibiotics Into Necrotic Pulp Space
Seokwoo S. Lee*	\$27,753	Marquette University	Identification of Virulence Factors of <i>Enterococcus Faecalis</i>
Larry K. Wells	\$15,050	Ohio State University	A Prospective, Randomized, Double-Blind Study to Compare the Efficacy of Ibuprofen and Ibuprofen/Acetaminophen on Postoperative Pain in Symptomatic Teeth With Necrotic Pulp
Maobin Yang*	\$13,822	University of Connecticut	Induction of Angiogenesis in Tissue-Engineered Injectable Scaffold Designed for Dental Pulp Tissue Regeneration
Total	\$99,517		
Special Awards	\$1,000		
Total	\$100,517		
TOTAL 2009 FUNDING	\$292,913		

* Highest scoring resident and faculty projects.
Boldface indicates a nonresident.



Congratulations From the AAE Foundation

Natasha M. Flake, D.D.S., Ph.D., of Seattle, Wa., has received the Junior Faculty Award from the American Dental Education Association Council of Students, Residents and Fellows. This award was partially sponsored by Colgate Palmolive. Dr. Flake is an AAE Foundation 2005 Endodontic Educator Fellow and currently teaches at the University of Washington.

A Decade of Progress Highlights the Power of Giving, continued from page 1

ongoing multicentered studies. Data is being gathered to evaluate issues such as single- versus multi-visit therapy as well as the impact of risk factors such as smoking, diabetes and HIV. The Foundation has funded both retrospective and prospective projects to evaluate the outcomes of implants versus endodontic retreatment as well as many smaller outcomes studies. One of the Foundation's critical roles is to provide the seed money for pilot projects that make research eligible for large-scale National Institutes of Health funding.

The refinement of materials like MTA, coupled with discoveries in the area of stem cell development and characterization, bring the promise of exciting new approaches to managing immature teeth with necrotic pulps. As a result of regenerative/revitalization therapies, teeth that once had a poor prognosis for successful treatment have the possibility to develop normal root structures. Research on pulpal regeneration offers the potential for better treatment of trauma as well as dental defects in children. Since 2001, the Foundation has provided over \$400,000 for projects related to regenerative endodontics.

In the area of academics, the Foundation has invested a total of \$1.2 million in Fellowship Awards

to recruit new educators. All full-time faculty receive funding to participate in an array of professional development opportunities. The Board of Trustees continues to initiate innovative types of support such as the Endowed Faculty Matching Grant to help institutions stimulate their own fundraising campaigns. The Foundation is the only organization that supports every accredited endodontic program in the United States and Canada.

The health of the specialty is tied to the strength of the AAE Foundation. Progress over the last 10 years demonstrates the importance of that relationship. Scientific advancement is exponential; more researchers and funding will be needed to keep pace with other areas of dentistry and health care. Endodontics must continue to pursue a robust scientific and educational agenda. While it is difficult to imagine what the next decade will bring, it is certain that the specialty's scientific and academic progress is inextricably linked to the willingness of its practitioners to support excellence.

Foundation Awards First Endowed Faculty Matching Grant \$100,000 Given to UTHSC-Houston

The AAE Foundation awarded the first Endowed Faculty Matching Grant to the endodontic department of the University of Texas Health Science Center at Houston. The \$100,000 contribution will fund the John R. Ludington Jr., D.D.S., M.S.D. Distinguished Professorship in Endodontics. The Ludington Professor will serve as the program's predoctoral director of endodontics in the department chaired by Dr. Samuel O. Dorn, an AAE past president. The Foundation's contribution is matched by gifts from the university's generous alumni.

The Endowed Faculty Matching Grant was introduced in 2008. The award provides an annual opportunity for endodontic programs to receive up to \$100,000 that can be used to support an endowed faculty position at their institution. The goal is to promote

academic excellence and to help ensure that endodontics will be taught by specialists. The grant is also intended to boost the recipient institution's fundraising capacity.

The award is part of a constellation of other Foundation funding initiatives that include competitive grants for research, support to endodontic educators and residents, and fellowships for students and clinicians who seek to pursue a career in education.

"We hope this grant will stimulate fundraising efforts at endodontic departments across the country," says Foundation President Dr. A. Eddy Skidmore. "Our goal is to ensure that every dental student has the opportunity to learn about endodontics from a specialist and that endodontics is a significant presence in dental schools."

Dear Dr. Skidmore,

This is something I should have written months ago, but hopefully the AAE Foundation will accept my sincere thank you for awarding the first endowed faculty matching grant to the department of endodontics at the University of Texas Health Science Center at Houston. The establishment of the John R. Ludington Jr., D.D.S., M.S.D. Distinguished Professorship in Endodontics is truly amazing and would not have been possible without the generosity and support of the AAE Foundation.

As you may know, ground has been broken for a new dental branch building. Dr. Sam Dorn, endodontic department chair and program director, is planning both the endodontic clinic and endodontic office area very carefully. It will be top notch!

I can also say we have a very supportive alumni group. Their assistance has been inspiring.

The AAE should be proud of all that the AAE Foundation has done and continues to do for endodontic education and research.

Also, please pass along my thanks to Chip Simon, immediate past president of the Foundation.

Keep up the great work and thank you!

Sincerely,
John R. Ludington Jr., D.D.S., M.S.D.

What's the State of Your Estate?

Submitted by The Stelter Company

Even if retirement seems like a far-away dream, it is important to manage your assets wisely and to keep your estate in good order. If your last will and testament has not been your first priority, here are some tips from the Stelter Company that could help you to get organized.

Your Estate Plan Check-In

No matter your age or health, it's important to have your will and other estate plans in order. If it's been a while since you reviewed your plans—or if you haven't yet created a will—use the following checklist to take stock of your situation.

- **An up-to-date will.** You'll need to update this document after major life changes, such as births, deaths and moves to different states, or tax law updates.
- **Other important documents.** Are your banking and credit card information, trust documents, insurance policies and other important records organized? Does someone, like an attorney or friend, know where they are and how to access them?
- **Tangible property including jewelry, art and other collectibles.** To keep track of your property, create a list on your computer or make a video inventory.
- **Charitable giving through your estate.** If you include a charity like the AAE Foundation in your plans, you can keep your assets for life while helping us provide beneficial services to others thereafter.
- **A health care power of attorney and a durable power of attorney.** Have you named a trusted person to make health decisions for you and another (although it could be the same person) to make financial decisions for you if you are no longer able to make those decisions yourself?
- **Final wishes or funeral arrangements.** It's a good idea to communicate your wishes to your family. Being aware of this information now will make the time when you pass away less stressful for your loved ones.

Now, if you feel that your estate plan needs a boost, set up a meeting with an estate planning attorney today. While updating your plans, we hope you'll remember the AAE Foundation.

Savings Bond Magic: How to Make the Taxes Disappear

If you leave your savings bonds to your heirs upon your death, your heirs will be taxed on the accumulated interest, leaving them less than 100 percent of the funds. There is one very easy way to bypass this tax burden: allow your attorney to add a codicil to your will, or an amendment to your living trust, that leaves your bonds to the AAE Foundation. (Please note that you can't name a charitable organization as co-owner or beneficiary on the face of your bonds.) This way we will receive 100 percent of their value—and your family can receive other assets that won't trigger income taxes. It's a simple transaction that allows you to fulfill your charitable goals.



How Long Will Your Bonds Earn Interest?

Series	Date of Issue	Number of Years Bonds Earn Interest
E	May 1941 – November 1965	40 years
	December 1965 – June 1980	30 years
H	June 1952 – January 1957	29 years, 8 months
	February 1957 - December 1979	30 years
Savings Notes	All issues	30 years
EE	All issues	30 years
I	All issues	30 years
HH	No longer issued as of September 1, 2004	20 years

Source: www.savingsbonds.gov

For more information on estate planning visit www.aae.org/foundation/plannedgiving.

Creative Financing

If you are thinking about a first-time pledge or would like to increase your current commitment, these payment strategies might make your decision easier:

- In lieu of courtesy care, consider asking referring doctors, friends or family to make a contribution to the Foundation in your name. It's a win-win situation—their gift is tax deductible to the full extent of the law and you might pay your pledge without ever writing a check. A *Grateful Patient Form* is enclosed with this newsletter.
- Pay your pledge with appreciated stock. You will eliminate the capital gains tax and receive an income deduction for the full market value of the stock. Guidelines for Gifts of Stock also are enclosed with this newsletter.

Get Your Bid On at the Foundation Auctions!



Don't miss your chance to get a bargain for a great cause!

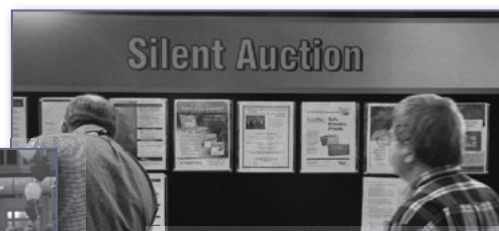
The AAE Foundation Silent Product and Live Auctions are an opportunity to give back while also receiving a great deal on new equipment or instruments for your office!

Silent Product Auction

Wednesday, April 14 through Friday, April 16

Foundation Booth in the AAE Oasis

- Bid on equipment, instruments and other products valued up to \$5,000
- Bidding closes at 4:30 p.m. on Friday
- Winners will be posted at the AAE Foundation Booth



Foundation Live Auction

Friday, April 16, 5 – 6 p.m.

Exhibit Hall, San Diego Convention Center

- Enjoy the Exhibit Hall Happy Hour with complimentary cocktails sponsored by PracticeWorks, Inc./Kodak Dental Systems
- Bid on products valued at \$5,000 or more

**All proceeds benefit the
AAE Foundation**

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Metalift
Obtura Spartan Endodontics
PBHS

PracticeWorks/Kodak Dental Systems
Radman, White and Associates, Inc.
Schick Technologies
Smart Endodontics by Discus Dental
SybronEndo
Treloar & Heisel, Inc.
Wiley-Blackwell

And More...

FOR MORE INFORMATION VISIT THE FOUNDATION REPRESENTATIVES AT THE AAE OASIS

Volunteers Tell the Foundation's Story

Endodontists, involved in the daily activities of practice, may see their profession through the lens of personal experience. They may not have time to stop and consider the big picture. That is why volunteers are so important.

The Foundation has a powerful message to share and the voices of its donors make the story truly compelling. A member's personal endorsement is the Foundation's most precious resource—by keeping the importance of the Foundation's mission in front of their colleagues, volunteers make a difference in the specialty's future.

Friends of the Foundation and Student Ambassadors raised over \$1 million during the last campaign. These funds

will replace money that was disbursed in grants during 2009 and allow the endowment to continue to grow. Although fundraising is one objective, raising awareness is equally important. Most of the time, once people understand the Foundation's role, the giving comes naturally.

Few organizations can match the generosity that exists within the AAE. This special quality results from the wonderful story of success that the Association has to share. If you would like to volunteer with the Foundation, contact Suzanne Riger, development coordinator, at 800/872-3636 (North America) or 312/266-7255 (International), ext. 3008, or by sending an e-mail to sriger@aae.org.

FRIENDS OF THE FOUNDATION educate their colleagues about the Foundation's mission.

D. Wayne Acheson	Nestor Cohenca	Gregory C. Gell	Asma A. Khan	M. Sadegh	Gorganna Randolph*	Clara M. Spatafore*
Robert B. Amato	Robert A. Coleman	Gerald N. Glickman*	Keith V. Krell*	Namazikhah	Paul A. Rosenberg	Michael Stone*
Anita Aminoshariac	Allen D. Colic	Albert Charles Goerig	James C. Kulild	William E. Newell*	Louis E. Rossman*	Patricio J. Sumaza
F. Charles Arens	Michael R. Cotter	George T. Goodis	Darin C. Lee	Carl W. Newton	Ramzi A. Sarkis	Kenneth P. Sunshine
Benedict Bachstein	Kirk A. Coury	Tamara Gravely Griffin	Sandra Madison	John S. Olmsted	Gary B. Schultz	Maureen L. Swift*
Lynne A. Baldassari-Cruz	B. Clark Dalton	Cameron M. Howard	Donna J. Mattscheck*	Joseph A. Petrino	Joseph H. Schulz	Patrick E. Taylor
Jessica L. Barr	Ronald I. Deblinger	John I. Ingle	Judy D. McIntyre	Mary T. Pettiette*	John C. Sheaffer	Robert A. Uchin
Anne-Marie Barussaud	Samuel O. Dorn	William T. Johnson*	Philip L. Michaelson	Roberta Pileggi	Michael G. Sherman	Mychel M. Vail
David F. Browning	Reid S. ElAttrache	Bruce C. Justman	Hal W. Mohorn	Karen S. Potter	Denis E. Simon III	Anne E. Williamson*
Shiwei Cai	Natasha M. Flake	Kevin M. Keating*	Heidi L. Moos	William D. Powell	A. Eddy Skidmore*	Grace Hsiao Wu
Cindy Y. Chow	David C. Funderburk	David M. Kenee	Peter A. Morgan	Martha E. Proctor	Howard J. Sorensen	

STUDENT AMBASSADORS educate residents at endodontic programs about the Foundation's role in their future profession.

Ambassador	Institution	Ambassador	Institution
Gerald N. Glickman*	<i>Baylor College of Dentistry</i>	Nadia Chugal	<i>University of California, Los Angeles</i>
George T.J. Huang	<i>Boston University</i>	W. Craig Noblett	<i>University of California, San Francisco</i>
André K. Mickel	<i>Case Western Reserve University</i>	Gerald C. Dietz Jr.	<i>University of Detroit Mercy</i>
Donna J. Mattscheck*	<i>Columbia University</i>	Roberta Pileggi	<i>University of Florida</i>
Shepard S. Goldstein	<i>Harvard University</i>	Jerome V. Pisano	<i>University of Illinois at Chicago</i>
Mahmoud Torabinejad	<i>Loma Linda University</i>	Mychel Vail	<i>University of Indiana</i>
Denis E. Simon III	<i>Louisiana State University</i>	Jeffrey P. Lilly	<i>University of Iowa</i>
Donna J. Mattscheck*	<i>Lutheran Medical Center</i>	Leslie Malueg	<i>University of Louisville</i>
Donna J. Mattscheck*	<i>Marquette University</i>	Donna J. Mattscheck*	<i>University of Maryland</i>
Donna J. Mattscheck*	<i>New York University</i>	Robert A. Coleman *	<i>University of Michigan</i>
A. Eddy Skidmore*	<i>Nova Southeastern University</i>	Joseph Petrino	<i>University of Minnesota</i>
Al Reader	<i>The Ohio State University</i>	James C. Kulild	<i>University of Missouri at Kansas City</i>
Kathryn C. Wright	<i>Oregon Health Science University</i>	Jeri R. Rush	<i>University of Nebraska</i>
Jerome V. Pisano	<i>St. Louis University</i>	Roberta Pileggi	<i>University of North Carolina</i>
George A. Bruder III	<i>State University of New York at Stony Brook</i>	Louis E. Rossman*	<i>University of Pennsylvania</i>
Robert B. Amato	<i>Tufts University</i>	James A. Wallace	<i>University of Pittsburgh</i>
Denis E. Simon III	<i>University of Alabama</i>	Donna J. Mattscheck*	<i>University of Southern California</i>
Maureen L. Swift*	<i>University of British Columbia</i>	Maureen L. Swift*	<i>University of Washington</i>
Ming Shih Levine	<i>University at Buffalo</i>	B. Ellen Byrne	<i>Virginia Commonwealth University</i>
		A. Eddy Skidmore*	<i>West Virginia University</i>

* Indicates a Foundation Trustee

Emblem of Philanthropy to Recognize Leadership Giving From Industry

Industry and the AAE Foundation have an important relationship. We have a shared interest in the specialty's advancement and productivity. Endodontists have demonstrated their commitment to scientific and academic excellence and industry has listened. Support from corporate partners has, and continues to be, an integral component of the Foundation's success.

"More than ever in the current economy, the contributions we receive from our corporate partners represent an incredible commitment to endodontics," says Foundation President Dr. A. Eddy Skidmore. The Foundation is constantly seeking better ways to show appreciation and recognize leadership donors for their generosity. At the Foundation's Interim Board Meeting, a new "Emblem of Corporate Philanthropy" was approved.

This emblem is designed to distinguish companies that have pledged at the \$50,000 level or above. The symbol may be

displayed in the following ways:

- On a Web page; a link to the AAE Foundation's Web page on the corporate site may also be provided.
- In a newsletter.
- On an exhibit display.
- On a brochure or mailing.

"A pledge is a powerful statement: it is not the same as sponsorship, marketing or advertising," says GorgAnna Randolph, AAE Foundation trustee and owner of PBS Endo. "It demonstrates that a company shares the AAE's commitment to quality endodontic care; the emblem reflects those values. We hope that more companies will want to be eligible to display this special symbol."



2010
Paid Over 5 Years

In Appreciation

The AAE Foundation gratefully acknowledges these partners from industry for leadership support to endodontic research and education:

\$1,000,000

DENTSPLY INTERNATIONAL
DENTSPLY TULSA DENTAL
SPECIALTIES

\$295,000

SYBRONENDO

\$150,000

PBS ENDO

\$125,000

PRACTICEWORKS/KODAK DENTAL
SYSTEMS

\$100,000

SCHICK TECHNOLOGIES, INC.

\$75,000

GLOBAL SURGICAL CORPORATION
TRELOAR & HEISEL, INC.

\$70,000

J. MORITA

\$50,000

ACETEON NORTH AMERICA
J. MORITA
OBTURA SPARTAN
QUINTESSENCE PUBLISHING
CARL ZEISS SURGICAL, INC.

\$35,000

CHARLES B. SCHWED CO., INC.

\$25,000

ACADENTAL
ASI MEDICAL, INC.
BRASSELER USA
BIOMET 3i
ELSEVIER
ENDOCO
PRO-DEX, INC.
VISTA DENTAL
ZIMMER



SybronEndo Honors AAE Foundation's Leadership Donors

2010 marks the third year that SybronEndo will host a special reception at the Annual Session to honor Foundation donors of \$10,000 or more. The Foundation cannot do enough to acknowledge the tremendous generosity of AAE members, so we are very grateful to SybronEndo for helping us to recognize our philanthropic leaders. This year the reception takes place in San Diego, Calif., on Saturday, April 17, at the Manchester Grand Hyatt from 6 - 7 p.m. in The Gallery.

With This Issue

Grateful Patient Form

A gift to the AAE Foundation is a wonderful way to demonstrate your appreciation for services rendered by an endodontist. Gifts may also be made in honor of or in memory of an endodontist. Patients who wish to contribute may use the enclosed form to provide a charitable donation to the Foundation's Endowment Fund.

Guidelines for Gifts of Stock

These guidelines provide the procedures to follow for individuals who wish to make a gift of stock to the AAE Foundation. A gift letter template is also included.